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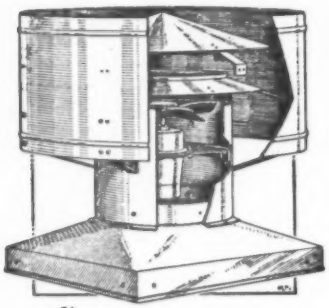
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1.	Euston 2158-9
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langnam 4041
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St.,S.W.1.	Whitehall5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council. Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 4771 (6 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988



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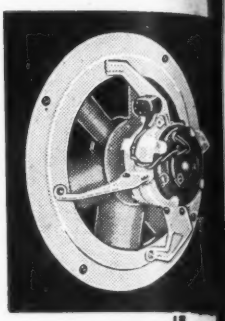
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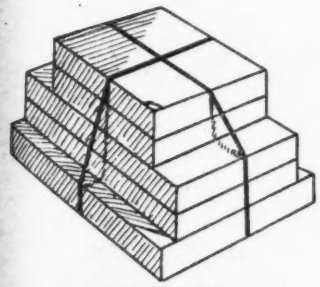
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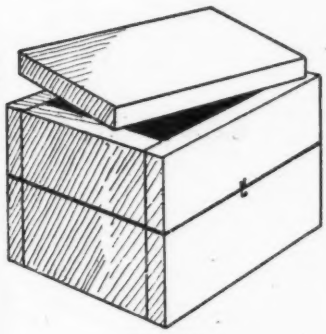
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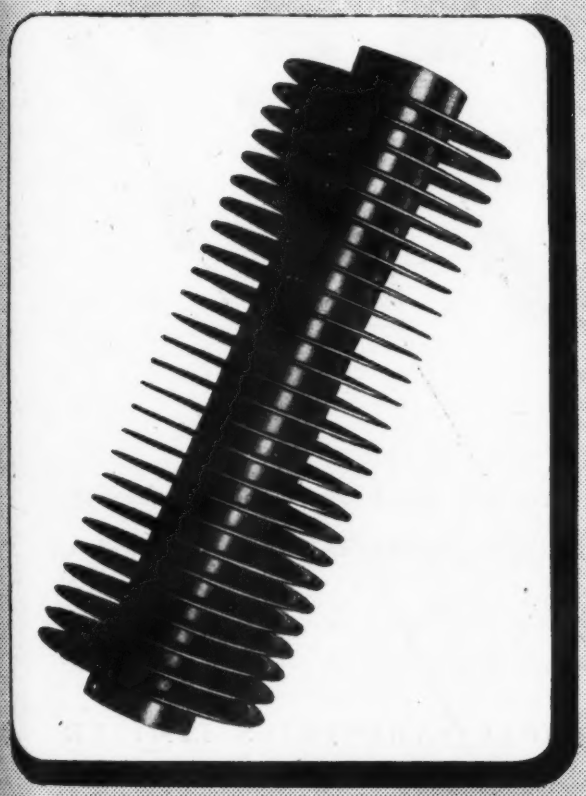
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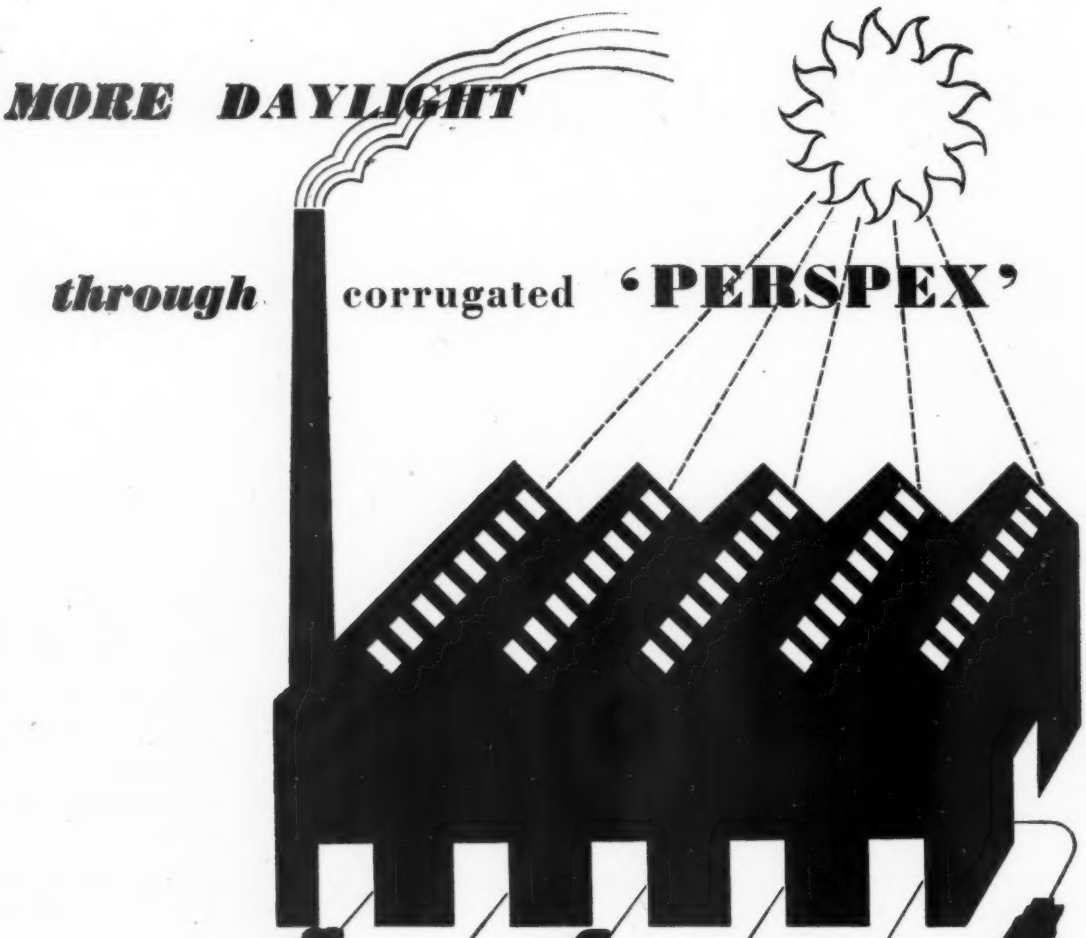
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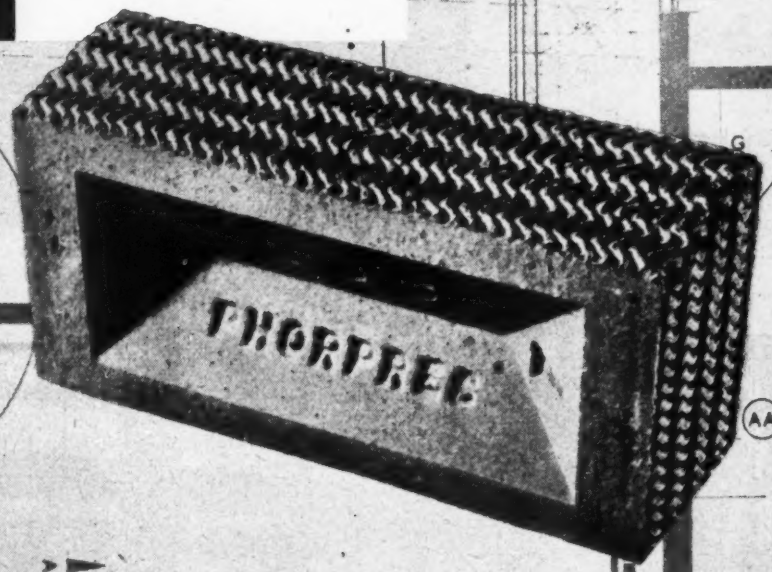
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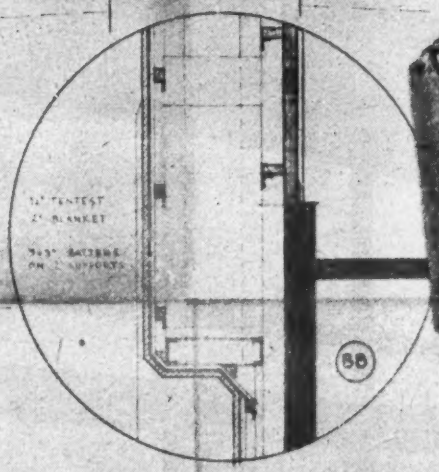


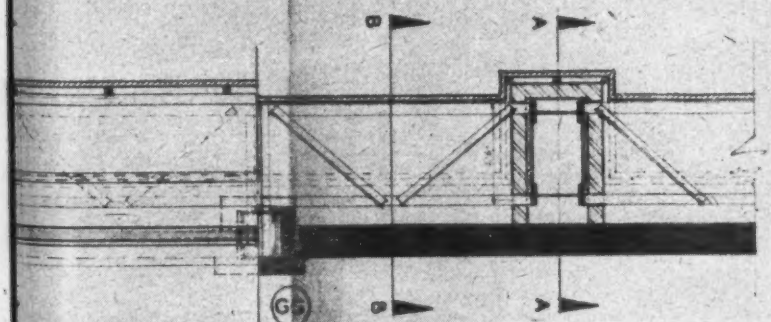
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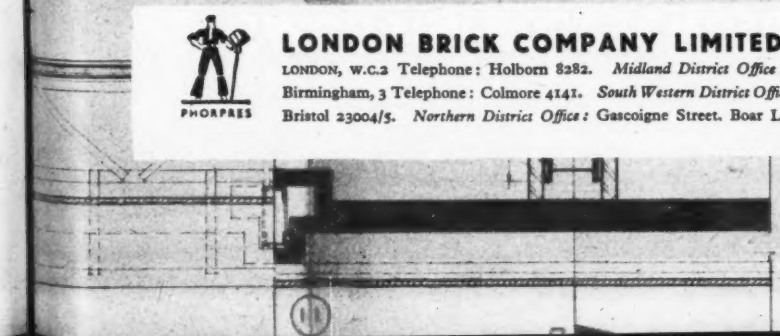
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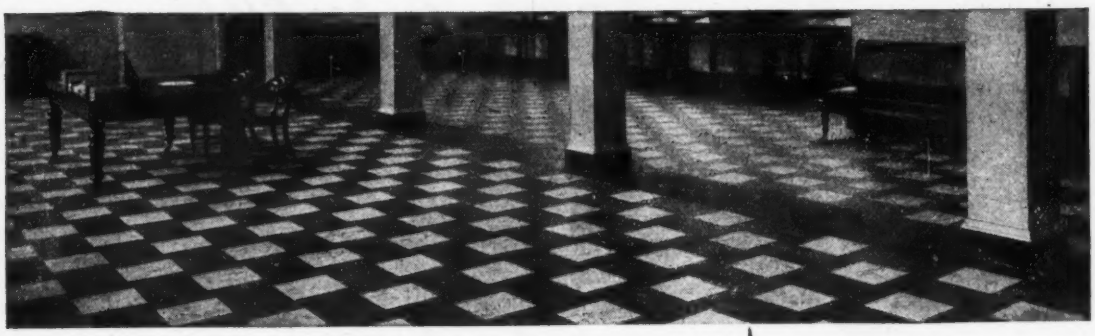
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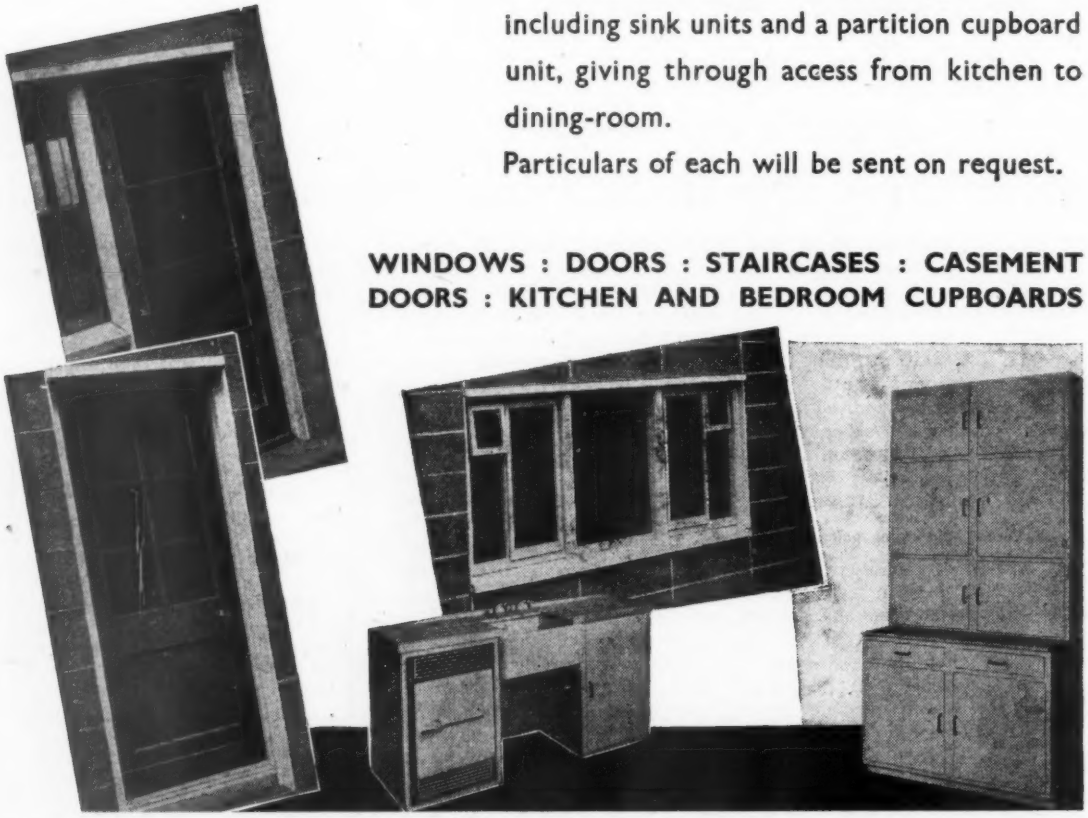


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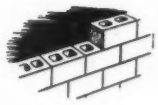
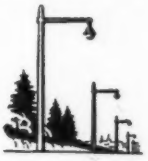
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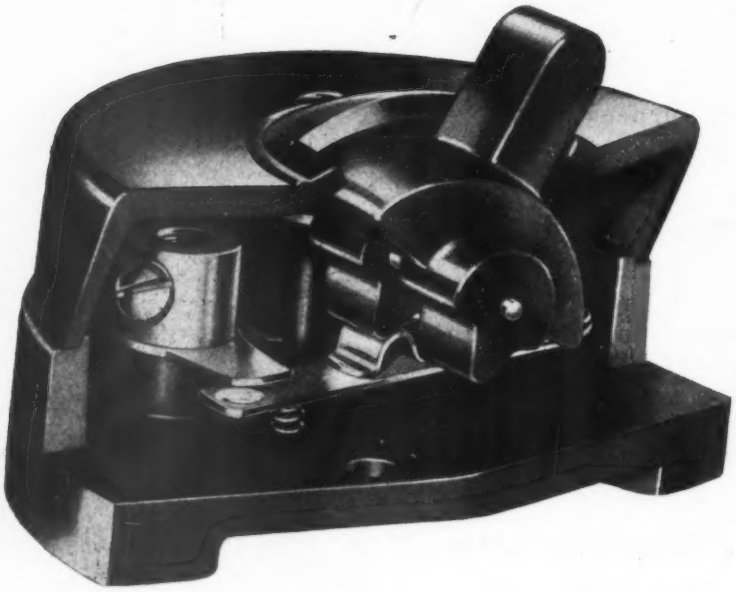
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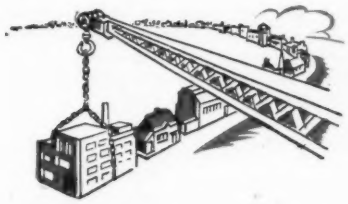
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The FAROMAT finish is washable and every one of its ten delicate pastel tints is fast to light. FAROMAT is also available in white. It will be found that these beautiful colours combine to offer unlimited scope in the interior decoration of Houses, Hotels, Restaurants, Churches, Schools, and Institutions.



FAROMAT colours and FAROMAT finish create an atmosphere of restfulness and an illusion of space which is especially valuable in modern domestic decoration. It can be used on practically any surface.

While the natural finish of FAROMAT is one of its greatest charms, differing degrees of gloss from egg-shell to varnish glaze can be produced when occasion demands.

FAROMAT TINT CARD will be sent free on receipt of application under your letterheading. In addition to complete range of tints in actual FAROMAT finish, it contains useful directions for the preparation of work and the application of FAROMAT to the different surfaces likely to be encountered in everyday work.

T. & W. FARMILOE LTD., ROCHESTER ROW, WESTMINSTER, LONDON, S.W.1



THERE is nothing remarkable about this structure. As far as Orlit is concerned it is just a " run of the mill " job. A three-storey block of flats had to be built with the maximum speed and the minimum use of timber and steel. The Orlit pre-cast method of construction was the logical choice.

The load-bearing framework is of pre-cast concrete stanchions, set out by a steel jig and resting on a 6-inch reinforced concrete raft. Orlit pre-cast units were used for walls, roof and for support for the floorings.

External walls of cavity construction consist of precision-made units. The internal skin is of light-weight concrete; the external skin being of dense concrete with a rough stone finish, cast integrally with the block. The cladding is structurally independent of the frame.

From start to finish only seven months elapsed, but there were unusual conditions of subsoil, and normally, Orlit could have completed their work in five months.

Block of flats at Poplar, E.14.
Borough Engineer: W. J. Rankin, A.C.G.I., A.M.Inst.C.E., A.M.Inst.M. and Cy.E., A.M.T.P.I.

Architects are invited to apply for details of Orlit Pre-cast Construction. Illustrated, descriptive booklets etc. will be sent on request.

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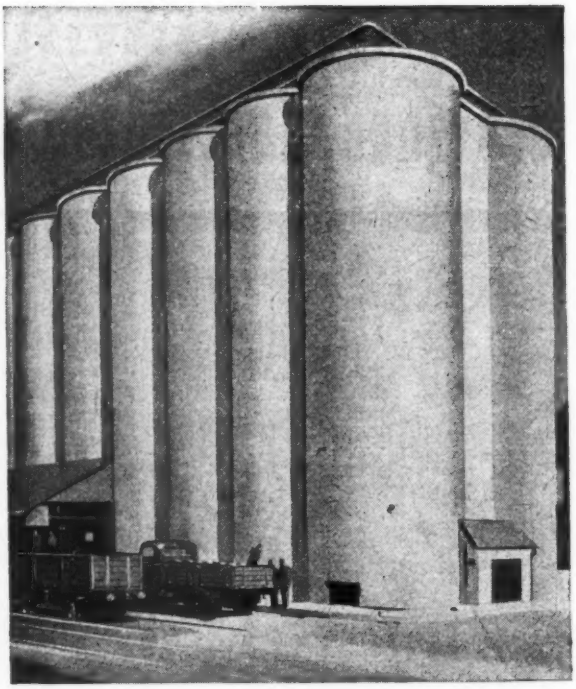
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FACTS

ABOUT THE BRITISH CEMENT INDUSTRY

Number One

IT IS EFFICIENT *'I recognise that the cement industry has attained a high standard of efficiency, and that its record production at a time when replacements of plant have been virtually impossible, reflects credit on all concerned.'*—THE MINISTER OF WORKS.

IT SHOWS FORESIGHT Because it planned ahead of requirements, ample supplies of cement were available for all purposes during the war and have been since.

IT WORKS HARD In an article in the 'Review' (September, 1948) of the INTERNATIONAL LABOUR OFFICE the cement industry is the only British Industry, apart from the fish curing industry, which is cited as comparing favourably for output per worker with production in the United States.

In 1948, the industry broke all production records by delivering for home use 6,893,000 tons of cement, and exporting 1,628,000 tons, which latter quantity obtained for Britain from abroad over £12,000,000 worth of much needed goods.

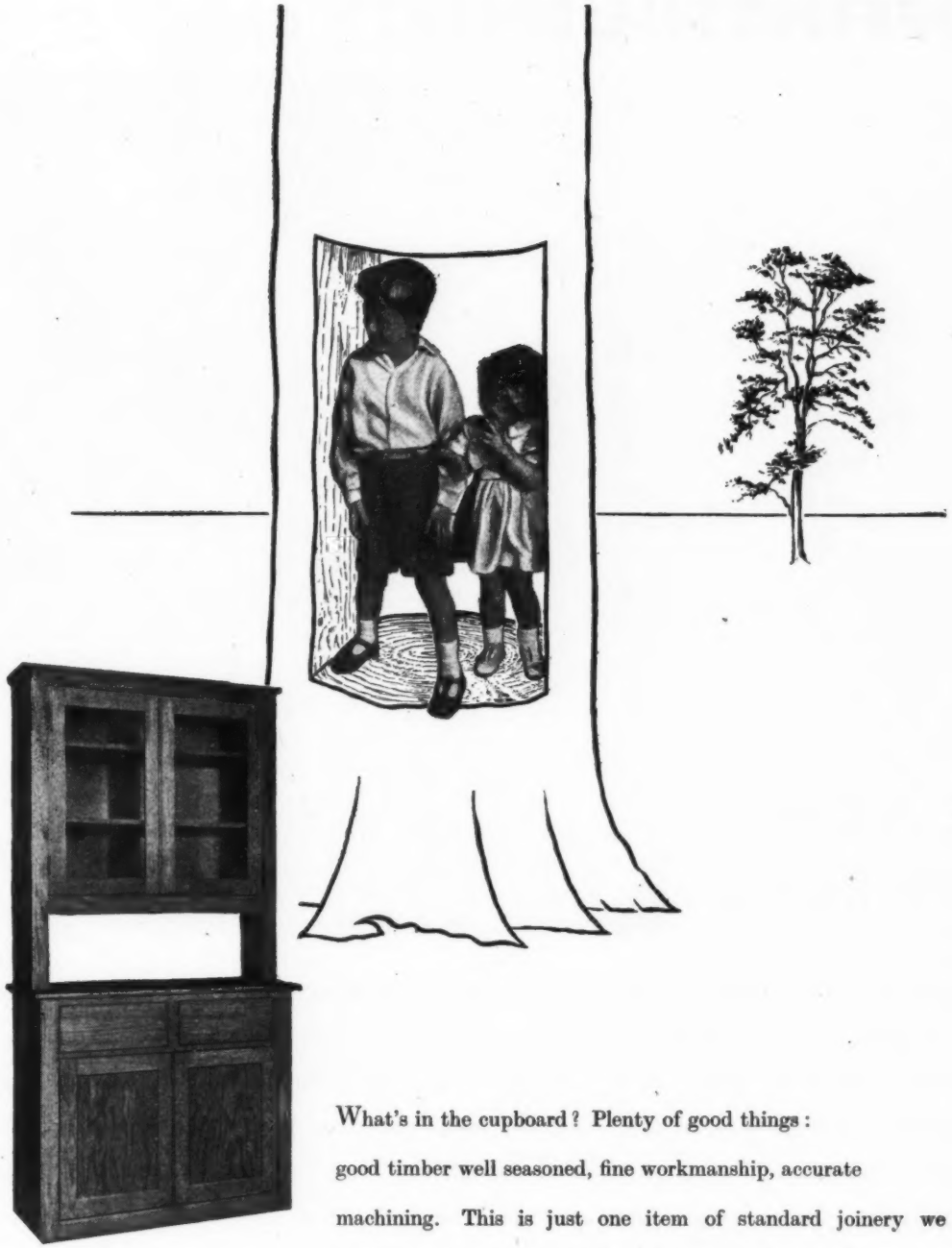
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Selling Organisation of

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What's in the cupboard? Plenty of good things: good timber well seasoned, fine workmanship, accurate machining. This is just one item of standard joinery we produce in large quantity. Others include window frames, doors, kitchen fittings, gates.

And when you order we won't keep you guessing. You get the items on time, delivered straight to your site.

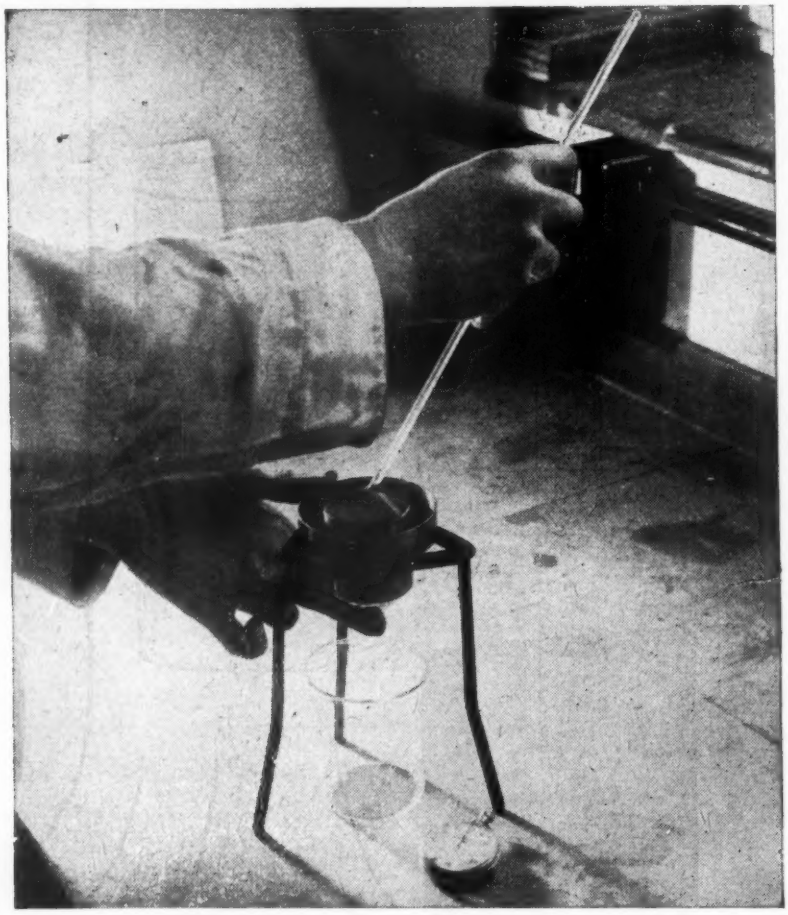
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THE MIDLAND WOODWORKING COMPANY LIMITED * MELTON MOWBRAY

CRC 5

BOFFINSTRUMENTS* *at your service*



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Much depends on the fluidity or 'runniness' of a finish—or to put it more technically, a finish must conform to standardized viscosity limits permitting of smooth application, and dependent on whether a brush, spray or dip method is to be employed. Each drum should be of the same consistency and the Cellon Boffins have to test a sample from every batch of finish before it leaves the factory. For this purpose they use a device called the Ford Cup. The Ford Cup is filled with the test material at a temperature of 25°C. The material is then released and allowed to run into a beaker. The time taken for the cup to empty is measured by a stopwatch, and this factor serves as an index of the viscosity of the material. This test, and others like it, ensures that Cellon productions will do the work for which they are intended—and do it well.

CERRUX *DECORATIVE FINISHES*

★ ***BOFFINSTRUMENTS.*** *Instruments used by Boffins (R.A.F. slang for scientists . . . etymology unknown) to make sure that finishes are up to standard and prevent them being got at by Gremlins.*

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Ascot Multipoint Gas Water Heaters were chosen by London County Council for their South Lambeth Estate. In Charmouth House 60 Ascot Multipoints are installed, and there are 170 more in other flats on this estate

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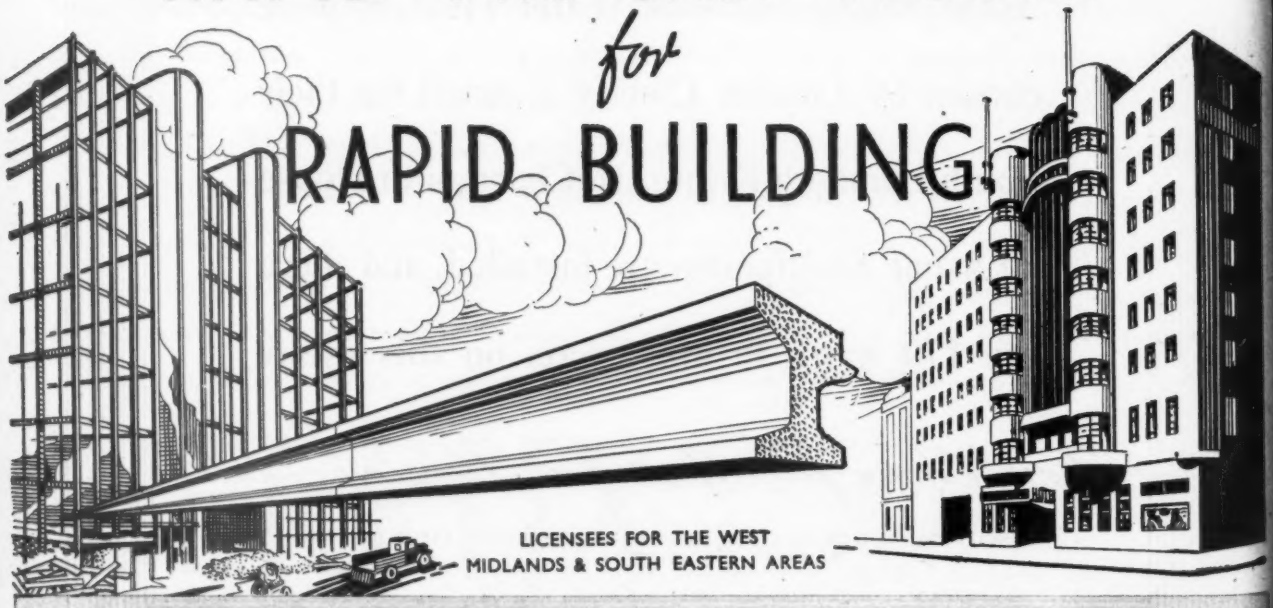
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A semi-recessed fitting, incorporating a series of 4 ft. 40 watt tubular fluorescent lamps behind obscured reeded glass panels, graces the entrance hall of the U.S. Navy Headquarters in Grosvenor Square. This is only one of several hundred fittings of various types supplied for this building by Troughton & Young (Lighting) Ltd. In addition, the complete electrical installation was carried out by Troughton & Young, Ltd.

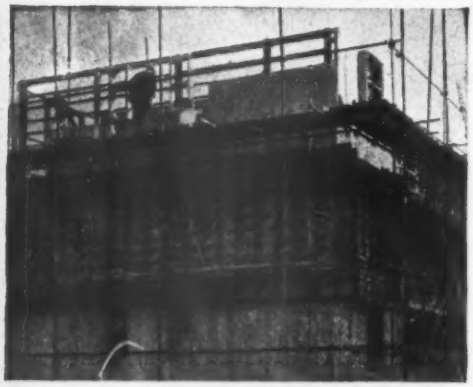
ARCHITECT: *Hector O. Hamilton*, F.R.I.B.A.

Architects are invited to visit the Lighting Centre at Knightsbridge or to write for information on lighting problems.

TROUGHTON & YOUNG (LIGHTING) LTD.

THE LIGHTING CENTRE, 143, KNIGHTSBRIDGE, LONDON, S.W.1. *Telephone:* KENSINGTON 7457 (10 lines)

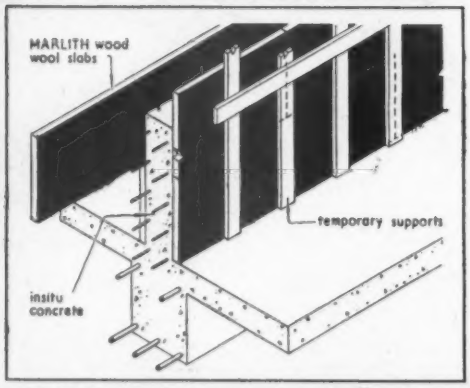
1



L.C.C. FLOWER HOUSE ESTATE

Marlith Wood Wool Building Slabs used as permanent insulating shuttering

2

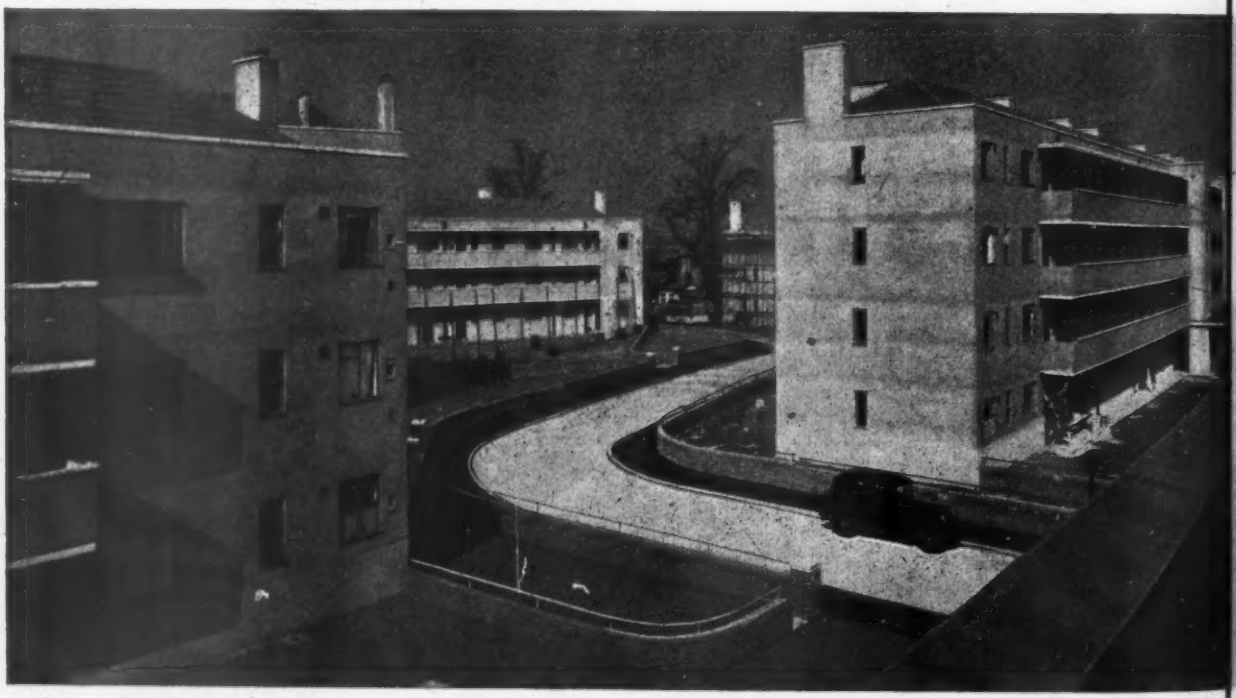


1-inch MARLITH is used as permanent shuttering on the inside of the external walls of the flats at this L.C.C. Estate. In all there are 15 blocks of 3 and 4-storey flats and 53,000 sq. yds. of Wood Wool Slabs have been used.

This use of MARLITH does away with conventional in-situ shuttering, reduces timber requirements, saves time and labour, increases thermal insulation, and eliminates the cause of condensation MARLITH provides a natural key, thus ensuring a perfect plaster base.

MARLITH possesses a low thermal conductivity (K = 0.58 B.Th.U/sq.ft./hr/1"/1°F) equal to 14" of brickwork. By incorporating MARLITH into the structure the thermal transmittance "U" value of the external walls was reduced from 0.44 to 0.25 B.Th.U's per square foot, per hour, per 1°F difference in temperature.

3



L.C.C. Director of Housing and Valuer: Mr. C. H. Walker, O.B.E., M.C. *Housing Architect:* Mr. C. H. Howard, L.R.I.B.A. *Contractors:* Kent and Sussex Contractors Ltd.

Marlith WOOD WOOL BUILDING SLABS

1 *Work in progress on one of the block of flats at the L.C.C. Flower House Estate, Catford.*

2 *Method of using Marlith as permanent shuttering for walls.*

3 *A view of the completed flats at the Flower House Estate.*

THE MARLEY TILE COMPANY LIMITED

SEVENOAKS · KENT

MARLITH Slabs conform to B.S. 1105 and are available in the standard sizes of 6'-0" × 2'-0" × 1", 1½", 2", 2½" and 3". Unplastered, the fine open texture of MARLITH affords a particularly high degree of sound absorption. N.P.L. tests disclose that over the middle range of frequencies MARLITH has a sound absorption coefficient of 60%.

In schools, hospitals, offices, auditoriums, broadcasting studios, flats and restaurants, in fact wherever control of reverberation and acoustical correction must be coupled with good thermal insulation, MARLITH is the standard specification. *Please write for further detailed Information.*





London Borough Specifies 'Plastex'



FLEETWOOD 'PLASTEX' Plastic Paint led the Borough Engineer and Surveyor of Bethnal Green to experiment with plastic paint covering on walls. The outcome of their experiment was reported in the *Municipal Journal*.

"The results have been very satisfactory. In addition to preventing condensation there will be an estimated saving over a period of years, as the plastic ('Plastex') paint lasts considerably longer than ordinary paint or distemper."

"In view of this report the Housing Committee have authorized that future decorations to walls of kitchens and bathrooms of the Council's Housing Estates should be carried out with plastic ('Plastex') paint."



LONG LIFE and the prevention of condensation are only two of the qualities that make 'Plastex' the outstanding plastic paint.

Its rock-like surface stands the hardest wear over a long period.

It may be applied *direct* to new plaster, cement, asbestos, wall-board and many other surfaces without the previous use of a primer.

It can be washed with soap and water.

It is very elastic; cracking due to the warping of timber is reduced to a minimum.

It is simple to texture (see illustrations) and is economical, one coat giving a pleasing finish.



Fleetwood 'Plastex' Plastic Paint is oilbound and ready for use IN ½ CWT. KEGS and 1 GL. CONTAINERS.

Fleetwood Architectural Service Department offers free help and advice to all Architects and Trade Users. A lavishly illustrated brochure may be obtained from leading Builders' Merchants and from Fleetwood Paints Ltd., at 2/6 a copy. It answers all questions dealing with 'Plastex'.

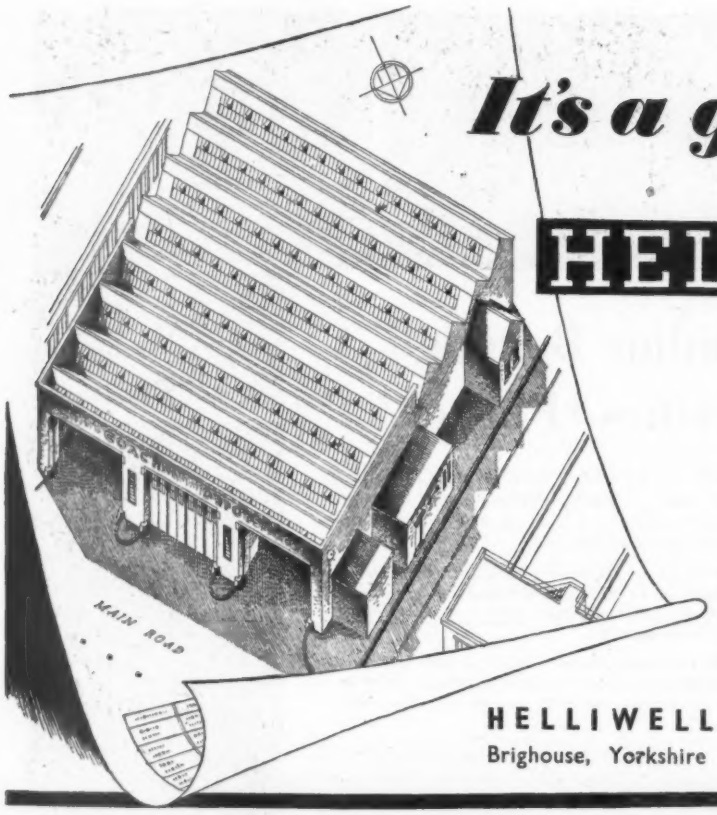


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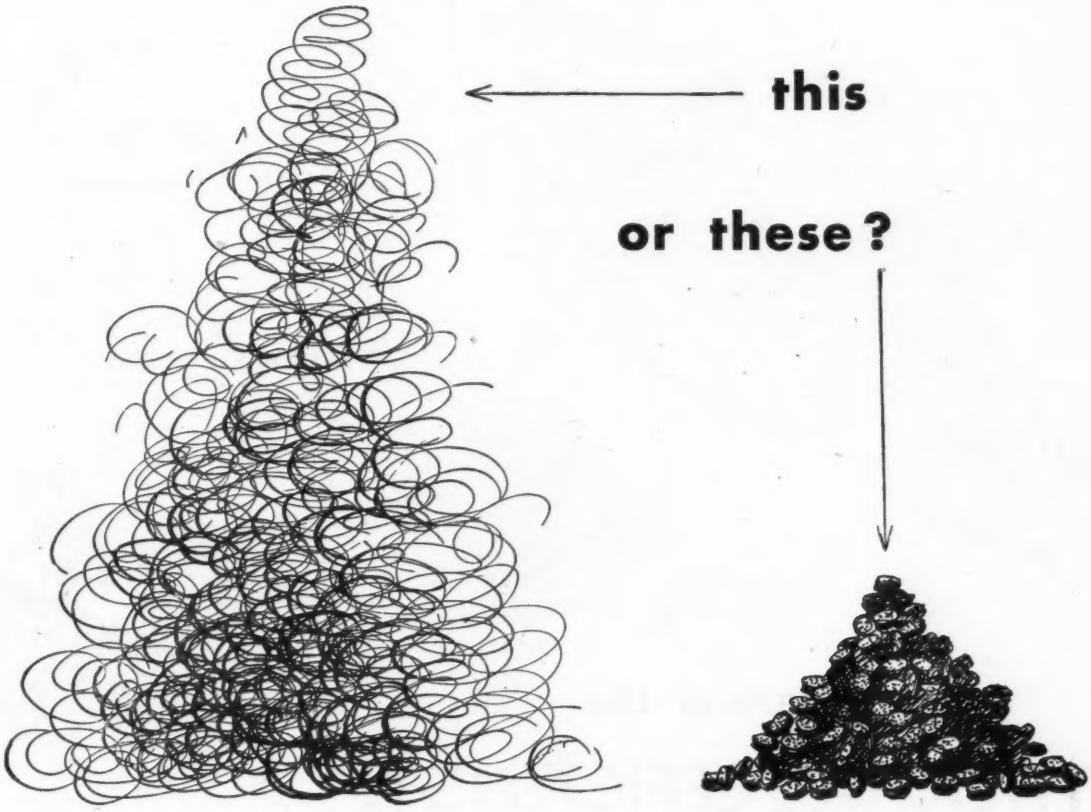
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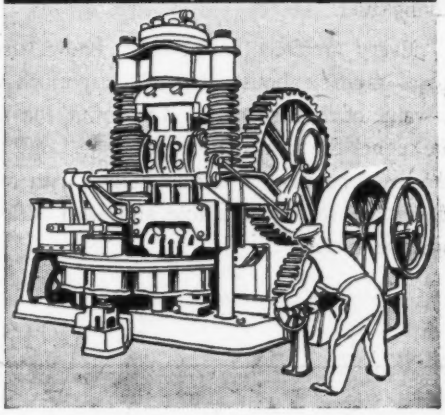
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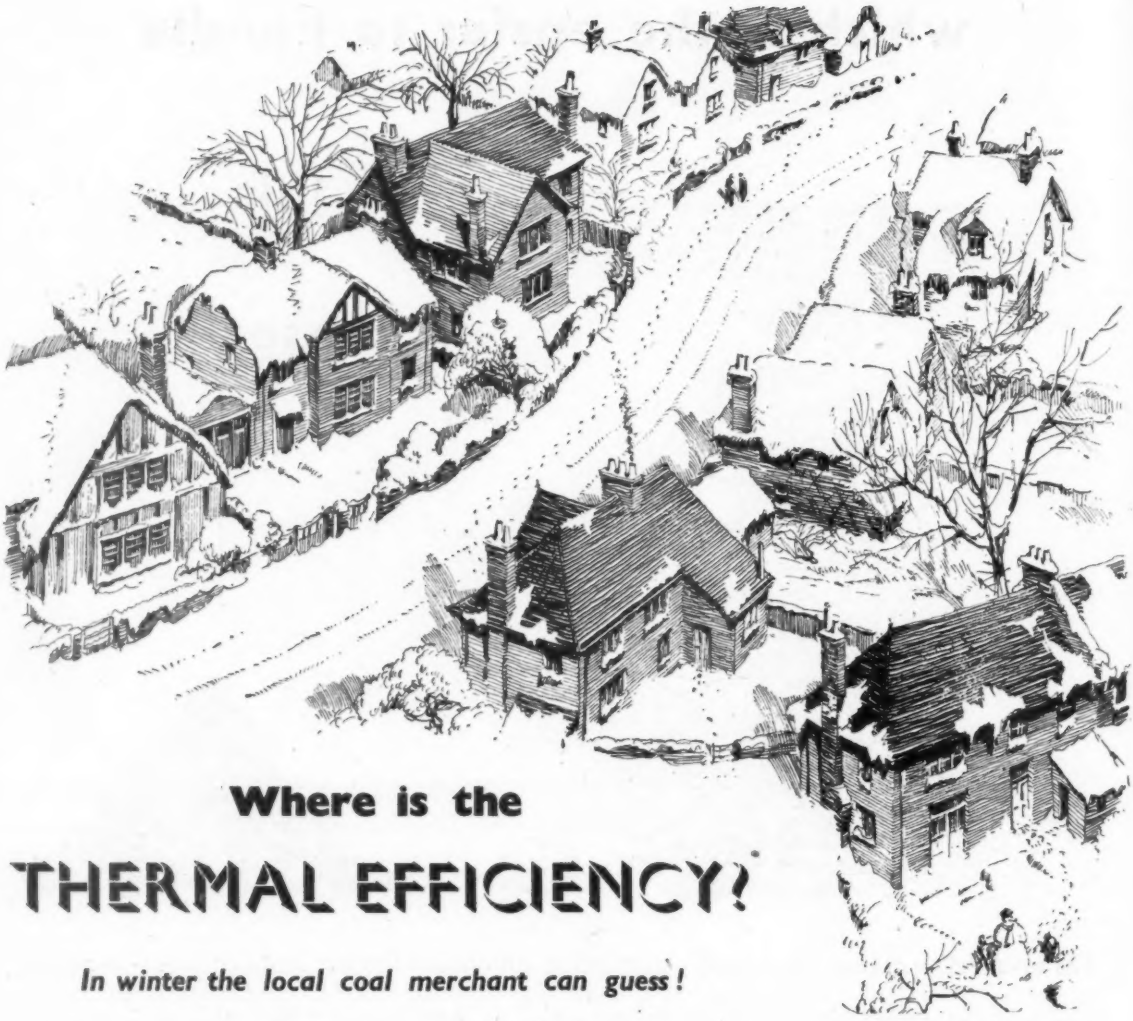
The 'Emperor' Press



An 'Emperor' Press can exert a pressure of up to 400 tons and produces as many as 30 pressings per minute. In the manufacture of coal briquettes the output is as high as 25 tons per hour, and it is equally efficient in connection with the briquetting of iron, steel, brass, copper, and aluminium borings and turnings.

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Where is the THERMAL EFFICIENCY?

In winter the local coal merchant can guess!

The unmelted snow on the roofs gives a broad hint, and the local coal merchant can guess which houses are thermally efficient. He knows which householders seem always to have fuel in hand when their neighbours are 'spent out', which of his customers smile when others grumble. Thermal efficiency brings contentment as well as saving fuel.

Every architect and builder knows that heat losses from a house depend very much on the U-value of the structure. The lower the U-value the higher the standard of insulation. Low U-values can easily be attained in new houses with materials which are readily available, and with little or no increase in cost.

Have you seen "*IT ALL DEPENDS ON U*"? It can be obtained from H.M. Stationery Office or through any book-seller, price 3d.

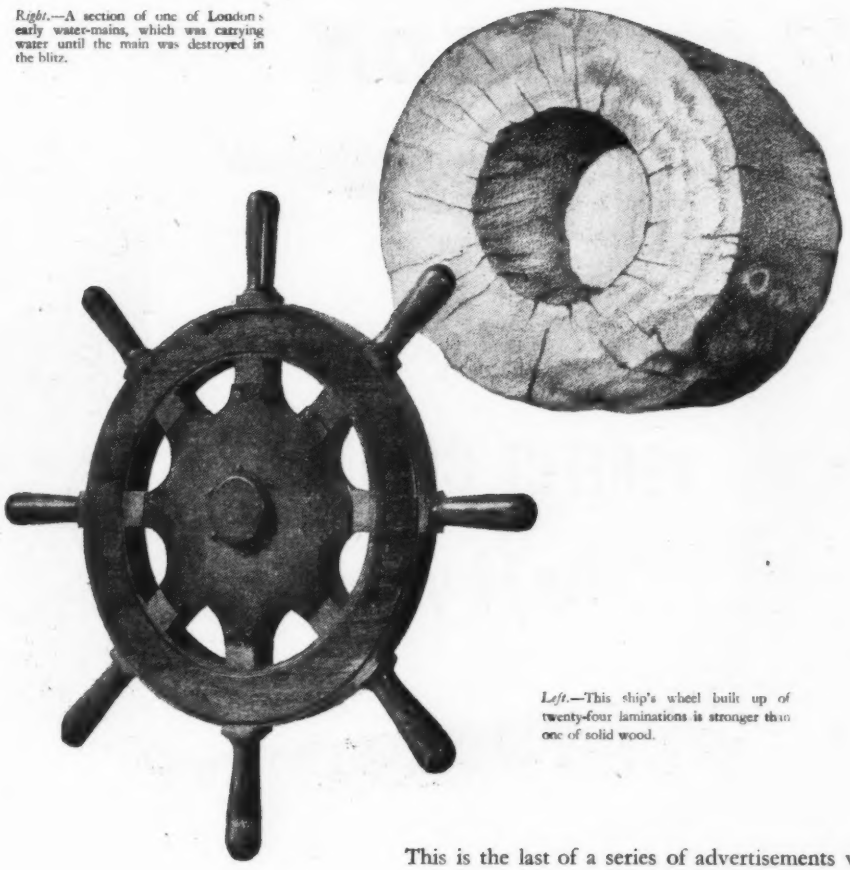
But there are other factors in Thermal Efficiency. The house must not be draughty—draughts cause discomfort and waste heat. There are many sources of draughts — badly fitting windows and doors, and, particularly, cracks between floorboards, against which even carpets are of little avail.

Then there is the heating appliance. This should be of a modern type. Nowadays there is a vast choice of high efficiency appliances and these are readily available. Thermal Efficiency has many aspects. None should be neglected.

Issued by the Ministry of Fuel and Power

TIMBER—OLD AND NEW

Right.—A section of one of London's early water-mains, which was carrying water until the main was destroyed in the blitz.



Left.—This ship's wheel built up of twenty-four laminations is stronger than one of solid wood.

This is the last of a series of advertisements which were originally designed to point the fact that Denny Mott and Dickson deal in timber in the widest sense of the word. Timber, as we have so often stressed in the past two years, is both a very old and a very new product. It includes every aspect of wood, whether solid, laminated or processed. Softwoods, hardwoods, veneers, plywood, wallboards, plastic sheets, all are "timber" in one form or another and in all forms it is handled by Denny Mott and Dickson who not only "deal in it" but advise upon its use.

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THE DUNLOPILLO SEATING IN

19 GRANADA THEATRES



The Dunlopillo seats which the Kinematograph Equipment Co. Ltd. installed in 19 Granada theatres 14 years ago are to-day still giving first-class seating comfort.

Dunlopillo will take any amount of hard wear. It will not damage seat covers because it has no hard edges. It retains its shape although it is pliable and soft. It is germ and vermin resisting and the most hygienic form of seating.

By nature of its construction, Dunlopillo is self ventilating and there is no discomfort to patrons during the hot summer months.

DUNLOPILLO

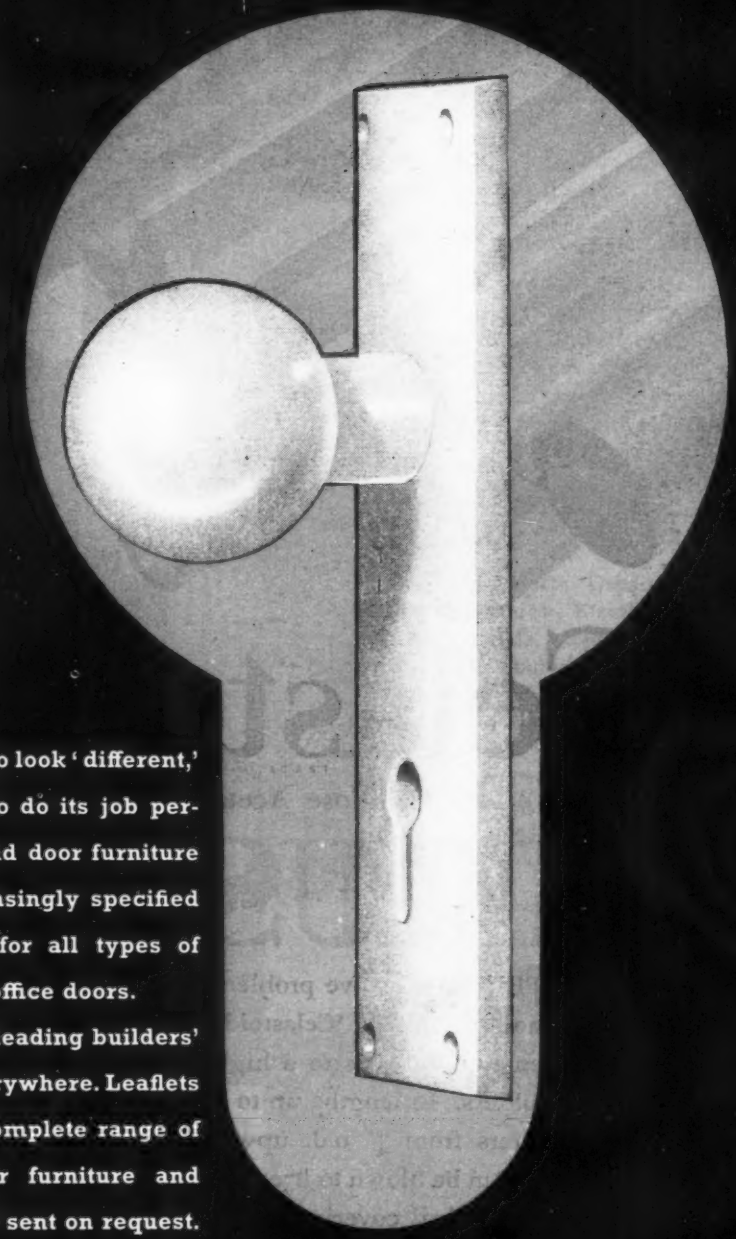
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Cellulose Acetate

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'CELASTOID' EXTRUSIONS solve problems in many industries. Can be easily manipulated and machined; 'Celastoid' is tough, chip-proof, does not crack, is easily cemented. Polishes to a high gloss, and can be made in a range of attractive colours. In lengths up to 10 feet (longer to special order).

TUBING: Diameters from $\frac{1}{4}$" o.d. upwards, minimum wall thickness ·030". Can be blown to irregular shapes by steam or air. Also makes an ideal covering for metal tubes or wooden dowels.

RODS: Diameters from $\frac{1}{8}$" upwards.

SECTIONS: A variety of special sections made to order.

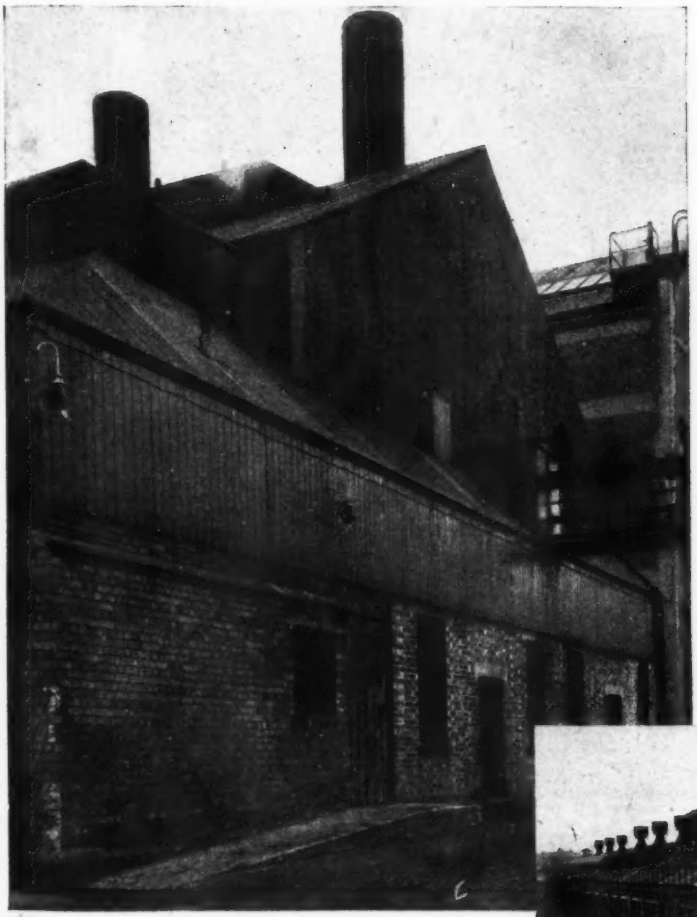
The services of our Laboratory of Applied Plastics are freely available for consultation and, where possible, for practical demonstrations of the application of plastics. Impartial advice will be given in all cases. All enquiries to:—

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No.2 DURABILITY



R.58

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Architects, Engineers and Builders are invited to write for our Technical Publication No. 326, entitled "Standard Specifications for Ruberoid Roofs."



Architect: M. C. Oakley, Esq.

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THE DEPENDABLE

GLOW-WORM

"Derwent"

FIVE FEATURE COMBINATION GRATE

One efficient and economical fire provides—

Large and uniformly heated oven.

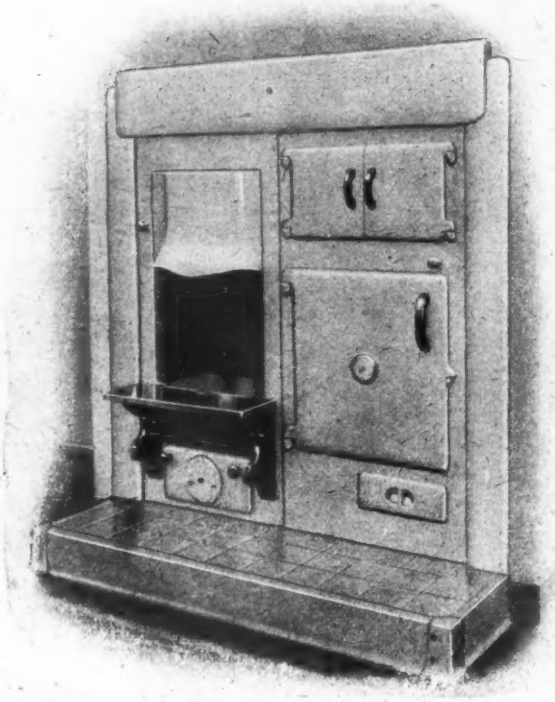
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Hot closet for keeping food warm and for slow cooking.

Ample supply of hot water for a normal family household.

Controlled room warmth. Fire has closed position for slow overnight burning.

Write for leaflet A.2. today.



SPECIFICATION

GRATE.—Overall size, 38 in. by 38 in. by 14½ in. Brickwork opening required, 44 in. high by 40 in. wide and 15 in. deep.
MANTEL.—Overall size, 45½ in. wide by 44¾ in. high.
KERB.—To suit 44 in. by 12 in. tile hearth.

Grate supplied in mottled fawn, mottled green or black vitreous enamel. Mantel is supplied in mottled fawn, mottled brown (to tone with the mottled fawn grate), mottled green vitreous enamel or fine-cast and primed one coat. Kerb is supplied in mottled fawn, mottled green or black vitreous enamel. A bolster can be supplied to restrict heat losses from firebox in its closed position.

GLOW-WORM BOILERS LTD. DERWENT FOUNDRY, MILFORD, NR. DERBY



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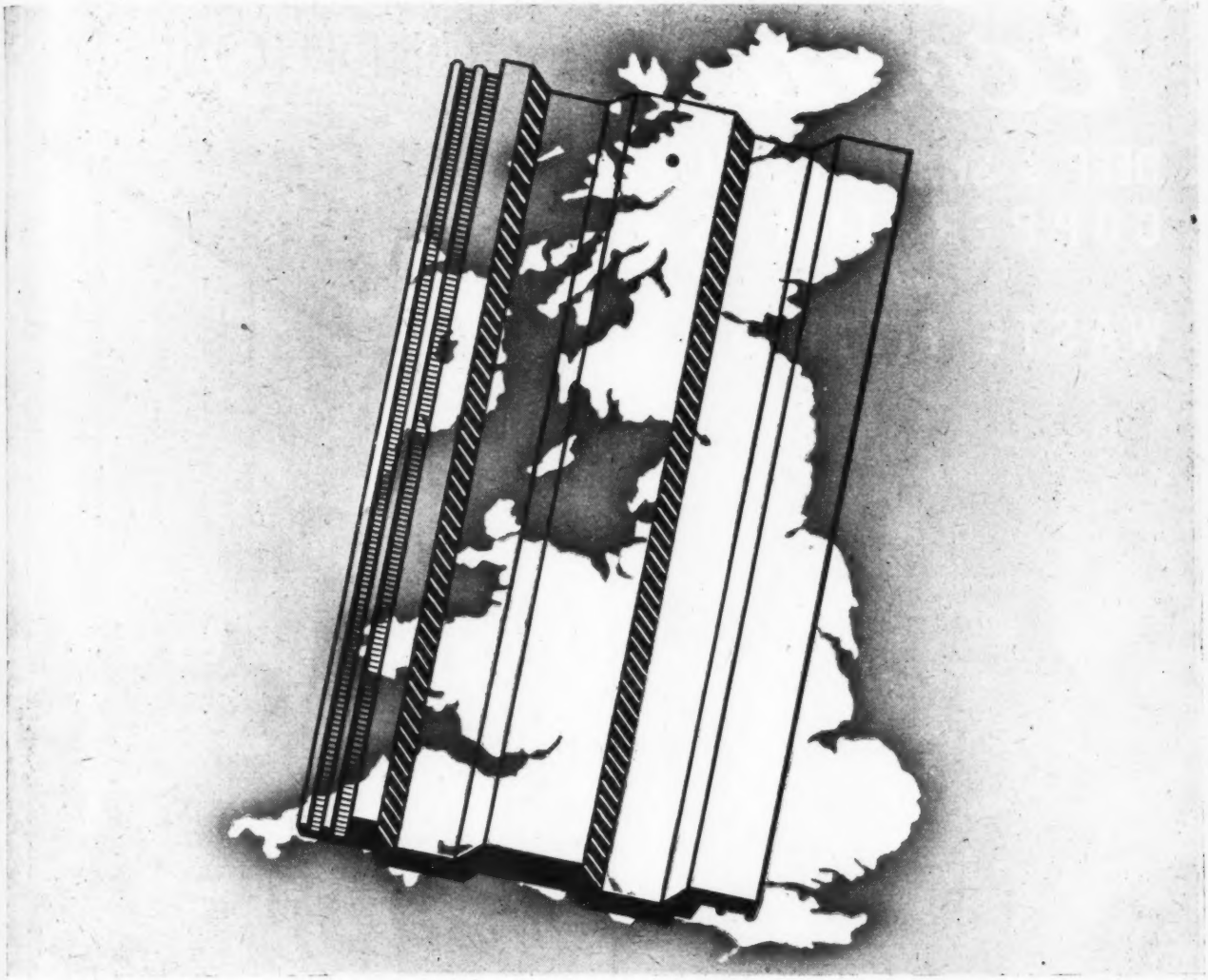
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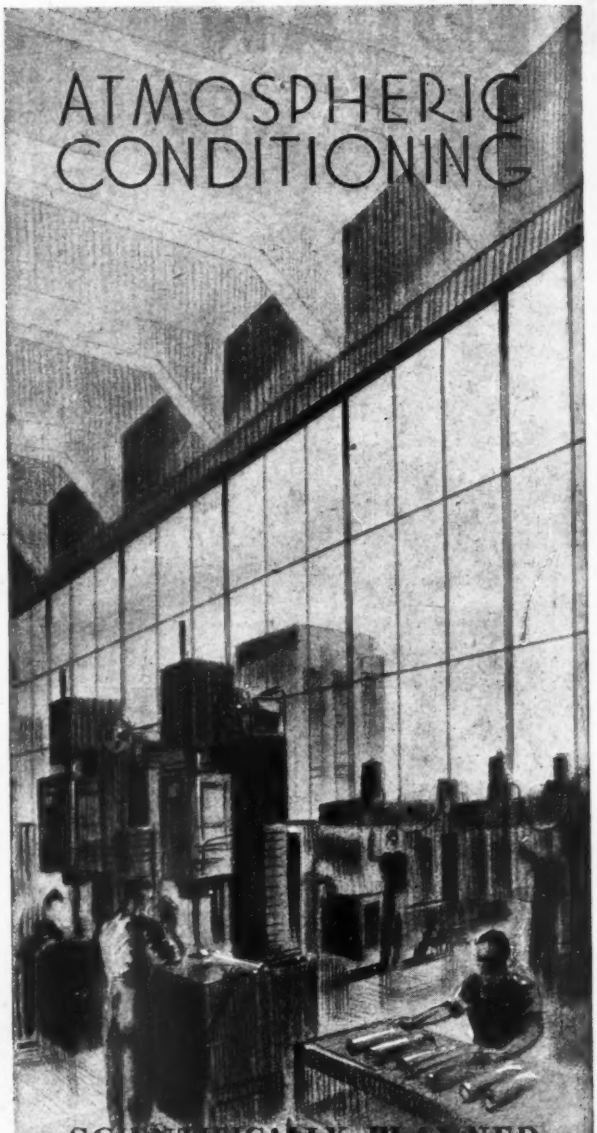
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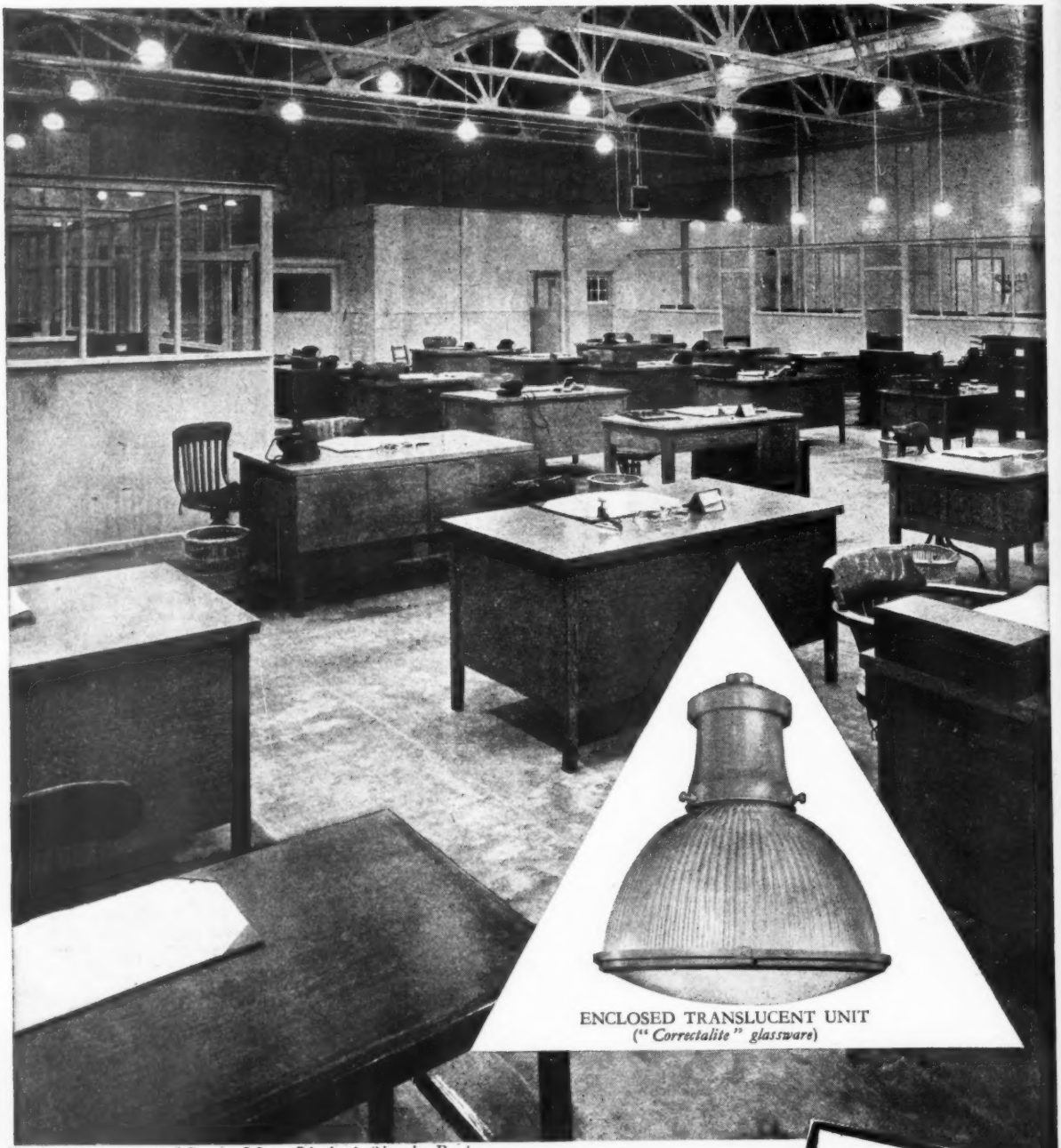
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DIARY FOR AUGUST AND SEPTEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

BRADFORD. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. SEPT. 12-17

GLASGOW. *Electrical Appliances Exhibition.* (Permanent.) Electrical Section, Scottish Building Centre, 425 and 427, Sauchiehall Street, Glasgow, C.2.

Scottish Industries Exhibition. Kelvin Hall. (Sponsor, the Scottish Council.) 10 a.m. to 10 p.m. daily, except Sundays. SEPTEMBER 1-17

LONDON. *Background to Design Exhibition.* (Sponsor, CID.) Rayon Design Centre, 1, Upper Grosvenor Street. W.1. Weekdays, except Saturday, 10 a.m. to 4 p.m. Closing date not announced.

Engineering and Marine Exhibition. Olympia. Monday to Saturday, 11 a.m. to 9 p.m. AUGUST 25-SEPT. 10

ST. ANDREWS. *Town and Country Planning Summer School.* At the University of St. Andrews, Fife. (Sponsor, TPI.) AUGUST 20-27

TUNBRIDGE WELLS. *Building Week.* (Sponsor, MOW.) SEPT. 19-24

YORK. *Summer School of Architectural History and Measured Drawing.* (Sponsor, York Civic Trust.) AUGUST 13-27

COMPETITIONS

Competition for Design of Strip Carpet. IAAS competition open to architects and architectural students in the United Kingdom and the Commonwealth. Divided into three sections: hotels, cinemas and theatres and ships. In each section a first prize of 75 guineas and a second prize of 25 guineas will be awarded. Closing date, October 31, 1949. The last day for questions, September 1, 1949. Assessors, Kenneth J. Lindy, E. C. Leach, and Hurley Robinson. Technical Advisers, John Anderson and J. P. Glass. Details from the General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Two prizes, £150 and £75, for Urban Design. Two prizes, £100 and £50, for Rural Design. Open to all architect members of the IAAS, and to any architect, whether principal or assistant, in the United Kingdom, Northern Ireland and Eire. Closing date, February 1, 1950. Applications to General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

NEWS

THURSDAY, August 11, 1949
No. 2844 VOL. 110

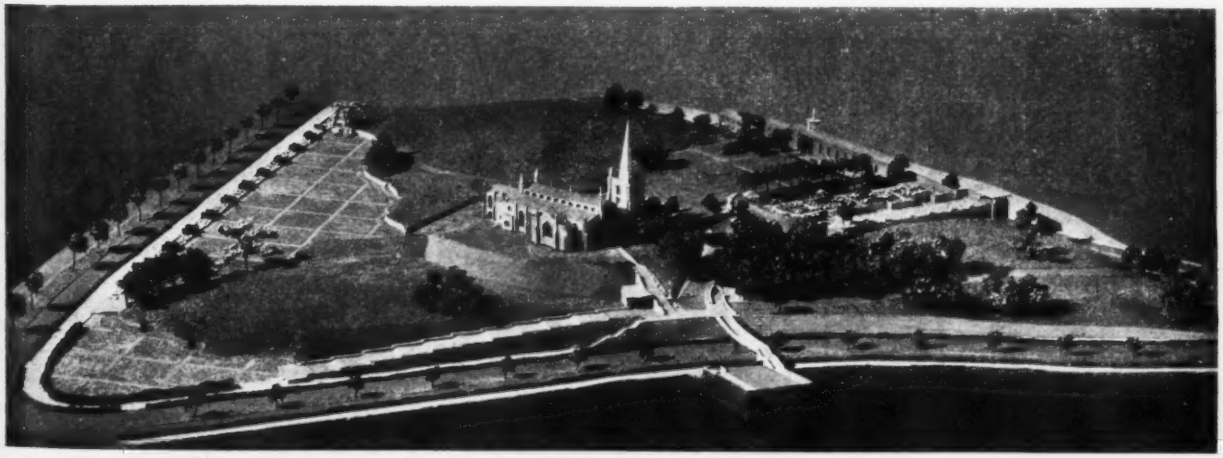
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Though no feature in the JOURNAL *is without value for someone, there are often good reasons why certain news calls for special emphasis.*

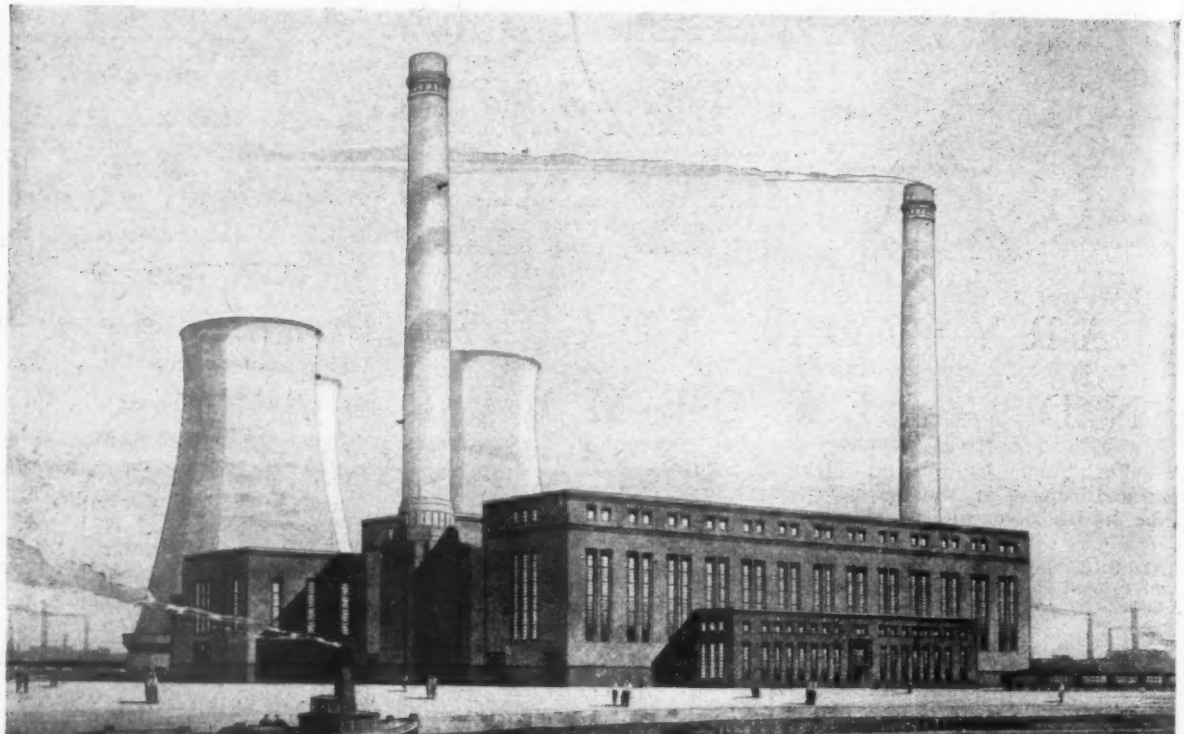
★ *means spare a second for this, it will probably be worth it.*

★★ *means important news, for reasons which may or may not be obvious.*

Any feature marked with more than two stars is very big building news indeed.



This model shows the Church Hill Memorial Landscape, Walsall, designed by Mr. G. A. Jellicoe and approved by Walsall Corporation. The area consists mainly of waste land and includes the church of St. Matthew with its fine cast-iron Gothic interior.



NEW POWER STATION, NECHELLS, BIRMINGHAM
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From AN ARCHITECT'S *Commonplace Book*

BERKSHIRE BUILDINGS. [*From* Murray's Berkshire Architectural Guide. *Edited by John Betjeman and John Piper* (*John Murray*).]—Berkshire's domestic architecture came into its own in the late sixteenth century, when the cloth trade prospered and local brick kilns were busy. The county was, moreover, by then well served with roads from London and country seats were improved and rich Londoners could build themselves new ones, a practice that they continued into the present century. Consistent grandeur and creativeness is found in buildings from the seventeenth to nineteenth centuries. . . . The railway age brought new people and a new type of architecture to Berkshire, wedding its eastern half to London. First came public institutions like Broadmoor Criminal Lunatic Asylum (1863), designed by Sir Joshua Jebb and Wellington College (1856-59) by John Shaw, and various hospitals, barracks and sanatoria. They chose the coniferous districts of east Berkshire, not for the picturesque reasons that appealed to George IV, but because the land was cheap and near London. By the 'eighties, sandy soil was considered healthy, as well as Swiss, Scottish and beautiful. Brick kilns were plentiful and many large houses, half-timbered, or turreted or towered and spired, sprung up, to live a short time as country estates, and in our own time to sink from the status of "country club" to a branch office of a Government department where clerical grade officers may be seen carrying trays of tea down corridors once carpeted to deaden the sound of the footmen's feet. . . . The present century has left its architectural mark, as does every age, along the wake of traffic. The main roads of Berkshire are more built up than open. From London, through Maidenhead to Reading and Newbury, it is semi-detached villas and factories for most of the way.

★

Architectural Schools are to design a BRITISH ART CENTRE.

Various schools of architecture in Great Britain have been invited by the Institute of Contemporary Arts to set as part of their normal curriculum during the next two sessions the designing of a building which would serve as the institute's headquarters. Plans for the schools which have already agreed to co-operate are being worked out by their representatives under the chairmanship of Mr. J. M. Richards. Several meetings have been held to consider the scheme, and among the organizations represented were the Architectural Association, the University of London, the Bartlett School of Architecture, Birmingham School of Architecture, University of Liverpool School of Architecture, and the Northern Polytechnic, London. In addition the Manchester University School of Architecture and Edinburgh School of Architecture have expressed a desire to co-operate in the scheme. No prizes are being offered, but an exhibition of selected work will be held at the headquarters of the Architectural Association, Bedford Square, W.C.1, from March 27 to April 21, 1950. Afterwards it will be circulated to schools.

A STUDENTS' DESIGN CLUB has been formed by the Buckinghamshire Society of Architects.

The object of the club is to help students who are not attending classes, and who are studying by themselves or by means of correspondence courses. It is intended to arrange for such students to be able to meet, see each other's work, and hear criticisms of work submitted in answer to the problems set. Problems set will lead up to the standard required for the Intermediate and Final Examinations of the RIBA.

It is suggested that there should be three or four meetings a year, on Saturday afternoons. At each meeting the design subject to be submitted for the next meeting will be announced; there will be a criticism of work submitted by members of the Society, or by some distinguished member of the profession not a member of the Society; and a three hour sketch design problem will also be set to familiarise students with examination conditions. The first meeting will be held towards the end of September at High Wycombe, when the subjects to be submitted at a meeting in December or January will be announced. All students resident in Buckinghamshire, or working in the office of a member of the Society who practices in the County, are invited to submit work for the Summer Sketch Club, to be exhibited at the first meeting of the Design Club, and from which selected work will be shown at the exhibition of members' work to be held in February next year. Those interested should notify the secretary of the Bucks Society of Architects, 87, High Street, Great Missenden, Bucks.

★★

The ARCHITECT FOR COVENTRY CATHEDRAL may be chosen by competition.

This has been proposed by Lord Harlech's Commission, who suggest that the competition should be organized by the RIBA. It will be remembered that the commission, under the chairmanship of Lord Harlech, was formed by the Cathedral Council after it had been advised by the Royal Fine Art Commission to abandon the designs it had accepted. Architects taking part in the competition will have to plan the cathedral, ancillary buildings, and a Christian service centre and chapel of unity.

★★★

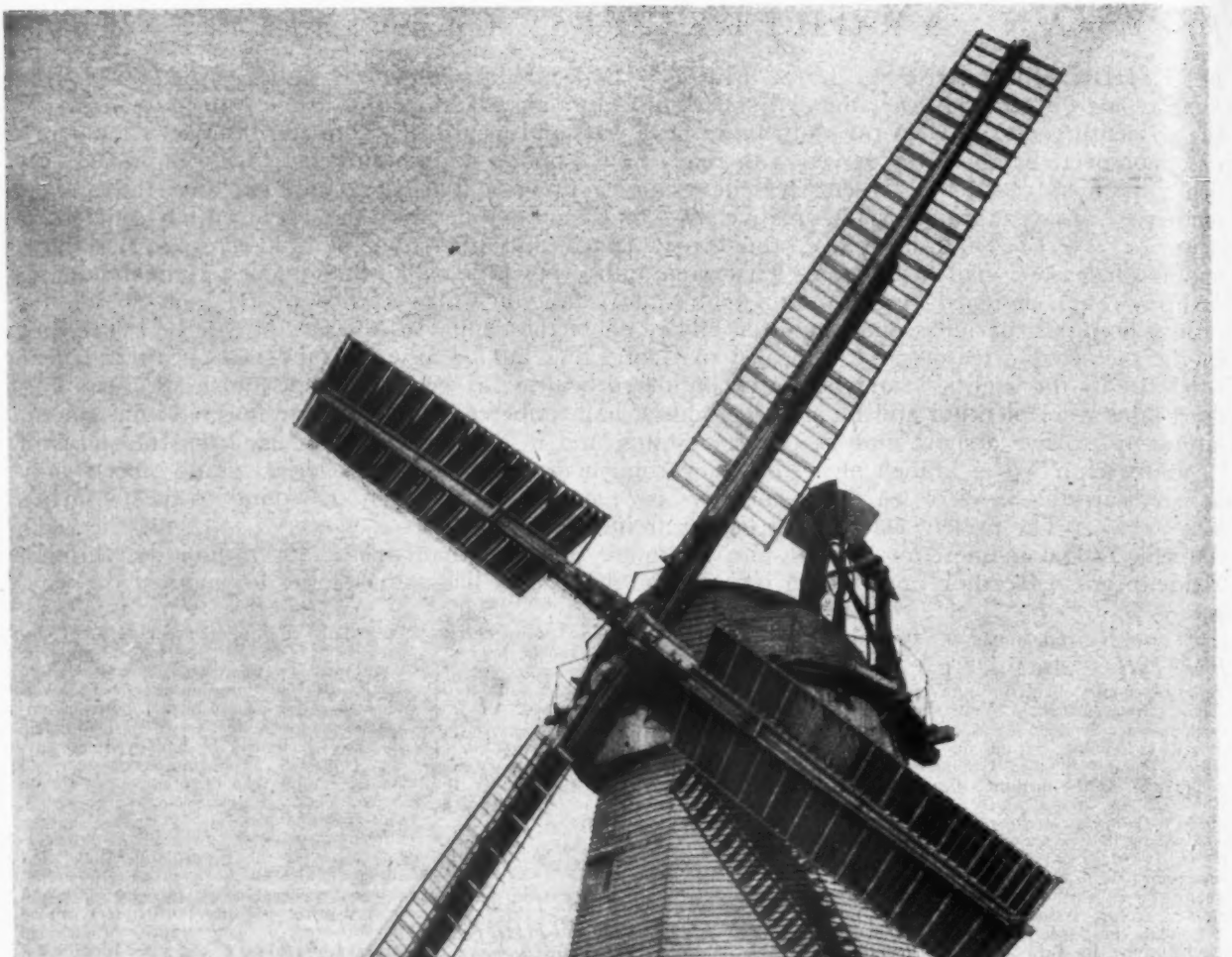
Two Architectural Competitions are to be held for FESTIVAL OF BRITAIN DESIGNS.

The temporary buildings to be erected on the South Bank for the Festival of Britain will include a small restaurant (additional to the other restaurants already designed) and a "vertical feature." The design of both these structures is submitted to competition, the latter being open to all architects, designers, engineers and architectural, design and engineering students. The restaurant competition is restricted to registered architects and students. In both cases, competitors must be resident or practising in Great Britain. Preference will be given to designs which are particularly economic in the use of materials and labour.

The "vertical feature" to be erected on the new river embankment will be the dominant vertical element in the exhibition. It may be completely abstract in conception or related to the theme of the exhibition. The "feature" should, in itself, be a major demonstration of the originality and inventiveness of British designers, and should be equally effective by day and when illuminated at night. Its height may be determined by the designer, but it should relate to the adjoining buildings. The overall area of the site is 40 ft. square, excluding the ample promenade area surrounding its site, which may be employed for guying if desired. The amount of steel and timber employed in the construction should be restricted to a minimum, but mechanical, electrical and hydraulic effects are not excluded. The assessors will be the Presentation Panel of the Festival of Britain, and the premiums to be awarded are a first prize of £300, a second prize of £150, and a third prize of £100. Further fees will be payable for the preparation of detailed working drawings if the prize-winning design is constructed.

The restaurant will be one of several in the South Bank Exhibition and will be sited on the new river embankment. It should be both an adventurous and a serious contribution to architectural design through the use of modern techniques. The qualities looked for will be suitability for purpose (*i.e.*, a restaurant in an exhibition) and of character, originality and inventiveness. It will be in the extreme south corner of the exhibition—*i.e.*, overlooking the river and close to County Hall. The area of the site is approximately 14,800 ft. super, but at least half of this area may be given up to garden. If any outdoor restaurant is planned it must be possible to roof it in bad weather. The use of soft woods must be restricted to a minimum and steel must be used as economically as possible. The ingenious use of canvas and similar temporary materials will be an advantage. The assessors will be R. Furneaux Jordan, Mischa Black, Hugh Casson, Mark Hartland Thomas and Ralph Tubbs. The premiums to be awarded are a first prize of £250, a second prize of £200, and a third prize of £150. Further fees will be payable for the preparation of detailed working drawings if the prize-winning design is constructed. The designs awarded premiums and such others as the assessors may decide will be publicly exhibited in London.

Those wishing to compete are urged to write immediately for the full programmes as the final date for receipt of designs is November 7 in the case of the restaurant competition and November 1 for the "vertical feature." All enquiries should be addressed to the Secretary of the Presentation Panel, "Festival of Britain, 1951," 2, Savoy Court, London, W.C.2, the envelope being marked "Competition."



Upminster Windmill

A number of English windmills, graceful symbols of a more leisurely age, are being preserved as the result of the efforts of one or two enterprising persons who have converted them into "machines for living in," a few commercially-minded individuals who have sought to enrich their beauty with the old inscription, "Bed and Breakfast," and the Society for the Preservation of Ancient Buildings which has had a Windmill Section for twenty years. A working mill is an object of greater beauty than one that is preserved merely as a landmark, and if the SPAB receives a successful response to its recent appeal for £850 the sails of Upminster Mill, Essex, shown above, will turn again, providing a unique feature for a landscape so near London. (See opposite page.)

UPMINSTER WINDMILL is to be restored.

The SPAB has opened a fund for the repair of the windmill at Upminster so that it may be set to work again. The mill, which is illustrated on the opposite page, was built in 1799. It is only 18 miles from London and is an excellent example of a smock mill with some particularly good technical features.

The mill has been inspected by Mr. Rex Wailes, Technical Adviser to the Windmill Section of the SPAB, who states that it will not be difficult to put it into working order, provided the money necessary, a sum of approximately £850, can be collected. Subscriptions to this fund will be gratefully received by the Windmill Secretary. The SPAB, 55, Great Ormond Street, W.C.1.

★★

NEW TOWN proposed for Northamptonshire

The Minister of Town and Country Planning, Mr. Lewis Silkin, recently consulted representatives of local authorities and the Mid-Northants Water Board on his proposal to establish a new town at Corby, Northants. The local authorities were Northants County Council, Corby Urban District Council and Kettering Rural District Council. Discussion took place on the proposal that an area of about 3,000 acres, suitable ultimately to hold a new town of about 40,000 people, should be designated under the New Towns Act, 1946. The Minister said the need of a new town has been demonstrated, as the already large number of workers in the steel industry in the area would increase by thousands when new expansions were carried out. The creation of a new town was a bigger task than the mere provision of houses, he said. It must be a place where people could live, work and enjoy their recreation in the most happy and congenial conditions. He agreed to consider the question further in the light of the discussion.

NEWS IN BRIEF

The number of permanent houses completed in Great Britain during June was 16,489, compared with 16,866 in May.

Birkenhead Town Council which became Labour controlled at the recent municipal elections, has just reversed a decision of the old Conservative controlled council to appoint a borough architect.

Mr. Colin St. C. R. Oakes, has been appointed chief architect to Boots Pure Drug Company, Ltd. Mr. Percy J. Bartlett, who has just relinquished this post, had been with the company since 1927.

The London County Council has approved a capital estimate of £140,000 for the acquisition for street widening and redevelopment purposes of certain land in High Holborn. An opportunity has now occurred to secure the comprehensive redevelopment of this land, much of which is derelict.

We have been asked to announce that after the outline preliminary plan for Hemel Hempstead had been adjusted and agreed in principle between the board of the Hemel Hempstead Development Corporation and their consultant, Mr. G. A. Jellicoe, during the year 1948, Mr. Jellicoe concluded his appointment in order to avoid duplication or conflict of authority that might have ensued.

THE ARCHITECT AND HIS MATERIALS

THE recent interest on the part of the Ministry of Health and other bodies in the shortage of stone-masons and the decay of skills in the handling of " natural " materials, serves to emphasize the confusion which exists in the minds of architects and others with regard to the nature of materials and their place in building. To those who are in close contact with the development of so-called " substitute materials," it must be a constant surprise how difficult it is to produce competitors to wood, stone, and brick through the use of industrial techniques. Not only are such " substitutes " apt to be excessively expensive, but, in addition, their qualities are more limited and they are only effective in combination with other materials which add the qualities they lack, thus leading, at times, to an extreme complexity.

This, of course, is not an argument for abandoning such materials and returning blindly to traditional techniques, but rather the reverse. The architect must know his materials and understand them thoroughly, and then he can use them appropriately and economically. The great advantage scientific study has bestowed on building is the exact knowledge now available of the performance of materials, so that the functional requirements can be accurately assessed and achieved to a nicety. The traditional materials, though lacking in many ways, have æsthetic qualities of solidity and weathering which are unique. To attempt to achieve similar qualities by using " substitute materials " is to court disaster. The very use of the term " substitute materials " is a reflection on the engineers, the manufacturers, public taste, and, most of all, on the architect. For the contemporary architect there can be no such thing as " substitute " materials. Every material has its own particular quality or combination of qualities. The architect, in conceiving his design, must be aware of those qualities and select the appropriate materials for his purpose. He should not, if he is wise, base his proposed designs on materials which are liable to be in short supply. If he does, he is liable to be forced into a makeshift which is neither honest nor satisfying. What is more, he will lose the opportunity of enriching his architecture with new forms and structure.

Before the development of factory-produced materials the architect was familiar with the nature of his materials. He fulfilled the functional requirements of his building and gave it expression, making use of such materials as he had that were suitable to the purpose. He made mistakes because his knowledge was empirical and intuitive. Today science can help, if the architect will make use of it. A whole new range of materials is available. The task of the architect is to understand their nature and use them to fulfil the needs of his building, which must be conditioned by the needs and emotions of today.

If he uses stone there is no need for him to build as his forefathers did in the Cotswolds two hundred years ago; the expressive possibilities of such materials have not yet been exhausted. If he uses plastics he need not have them impressed to imitate pigskin or patterned to simulate the graining of wood. They have their own inherent possibilities. Let him know them and exploit them.



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NOTES & TOPICS

FRANCO-BRITISH UNION

A number of well-known architects have recently been observed making rhythmic convolutions with their wine glasses, tasting the contents under the tongue and testing the colour against silver. The explanation appears to be that they probably recently returned from this year's meeting of the Franco-British Union, which was centred on Dijon and, from all accounts, was a memorable one. Packed into four days, the programme covered a most satisfactory mixture of fine architecture, ceremonious entertainment by Prefect and Mayor, and, as might be expected in the heart of Burgundy, the most exquisite food and wine: the menu of a lunch at the Chateau du Clos de Vougeot seems to arouse particular envy, and it is not surprising that afterwards, at Beaune, some were almost tempted to lie down awhile on the great range of elegantly screened hospital beds of the Hotel-Dieu.

On the trip down and back to Paris, by motor coach, the party visited the Cathedrals of Rheims, Troyes and Sens, where much of the impressive stained glass is back in place. But what seems to have most impressed the English architects was the apparent high status in the eyes of the public of their French confrères, who are fully occupied with large-scale development and reconstruction.

NEW WINDS OVER BERGAMO

I have just received a copy of a communication addressed to the recent CIAM Congress held at Bergamo by Bruno Zevi, an Italian architect whose book, "Towards an Organic Architecture," is to appear in English shortly. The communication is entitled "Concerning Architectural Culture," and I understand that some extracts from it will appear in a later issue of the JOURNAL. It consists of an appeal to the CIAM to grow with the times, to regard architecture on its æsthetic, no less than on its technical, side as a developing art. He criticizes the tendency to regard the work of Le Corbusier as an all-time summit of architecture, after which decadence is bound to occur. It will be interesting to hear what the Congress has had to say about this message. At the last Congress at Bridgwater it was clear that the delegates were by no means so single-minded as they had been between the wars.

*

Incidentally, the essay contains some thirteen criticisms of Dr. Giedion's study of the development of a contemporary architecture. Professor Pevsner in the current number of the *Architectural Review* also has had a go at Giedion. All this is a welcome sign of renewed and vigorous interest in the development of architectural ideas. There has been an alarming tendency for contemporary masters to regard their achievements with excessive satisfaction and not as but steps on the way to the solution of the needs of today.

GROWING MENACE

The more I see of television the more I am becoming convinced that it is really something of a menace. One of my week-end haunts has a set in the public bar and this means semi-darkness, an end to all conversation; and extreme difficulty in getting even the first drink. Of the programmes—at any rate, the Saturday night ones—I cannot bring myself to say anything printable. In the home, at least two of my acquaintances seem to organize the whole of their evenings according to the current programmes; maybe this is no more than a passing phase, but it seems a pity to be so bound to a machine. Few things annoy me more than the habit of using radio as a background noise, but at least it *can* be ignored, while television is a sort of snake and rabbit business, and you just have to look at it.

*

The only bright spot is that the few children I know well look on television as a not very interesting grown-up habit and still prefer their paper and chalks. Yet, for schools, television must obviously replace straight radio. Do you agree with me or am I just getting middle-aged?

SELF-ADVERTISING

When, having climbed the steep brown and cream painted staircase, I stand before the dusty peeling door that leads to so many an eminent architect's office, I often wonder whether the architects are as design conscious as they make themselves out to be. The confusion inside the office often confirms the first impression: out-of-date drawings with hastily pencilled free-hand corrections; unwashed tea cups; dusty, unused, drawing boards; and, in a corner, a dying plant recalling last year's visit to Sweden. All symbolize, no doubt, the never-ending battle in the architect's mind between the dreamy, dirty, artist and the cool, clear-thinking, designer-cum-business man.

*

The official architect's office is usually even more drab than the office of an architect in private practice. It was, therefore, encouraging to learn from a colleague that Newcastle's Architects






Four illustrations from Murray's Berkshire Architectural Guide, edited by John Betjeman and John Piper. Top: left, Tompkins' Almshouses, founded 1733, *in Abingdon; right, Ashcombe Almshouses, founded* 1611 *in Lyford. Above: left, Christ's Hospital in Abingdon, founded* 1553 *with, right, additions in* 1797. *See Astragal's comments below.*

Department have repainted and refurnished what I remember as one of the dingiest offices that ever a draughtsman strained his eyes in. The colour scheme may not be to everyone's taste, but at least the city councillors will know what to expect in the matter of design from their recently appointed City Architect, George Kenyon.

*

It does surprise me, though, that architects, whether official or private, do not take maximum care to ensure that the offices in which they work set a standard of design. Clients, strangely enough, like to be impressed, and it is a comparatively simple way of doing it.

BERKSHIRE GUIDE

That incomparable team, John Betjeman and John Piper, who last year produced the first of Murray's Guides, dealing with the architecture of Buckinghamshire, have this year surpassed even the standard of their first book with their second survey, this time of the county of Berkshire.*

The format is much the same; an introductory essay, a good map, and easily read and commendably brief notes on the parishes of the county. The great joy of the reader, is, of course, the excellent array of photographs. I illustrate above four photographs which appear on a typical page. I have chosen them not because they are the best photographs or the best subjects (there are many finer examples of both), but because they typify standards of design in a humble sphere which, even today we have not managed to excel. Good detailing, beautiful brickwork, and a pleasant layout; Messrs. Betjeman and Piper have an eagle eye for detecting these things, and an excellent technique for recording them.

*

There is only one small omission; there is little reference to the fine bridges of the canals and the rivers Kennet and Thames. Perhaps the latter river will receive more attention when the authors cross the border and deal with Oxfordshire, another county worthy of their attention.

ASTRAGAL

* *Murray's Berkshire Architectural Guide.* Murray. Price 18s.

LETTERS

T. E. Hall, A.R.I.B.A.
Peter J. Watkins
J. C. Whettam, L.R.I.B.A.

Building Team to Visit USA.

SIR,—The membership of the above team selected to visit the USA under the auspices of the Anglo-American Productivity Council is noted with interest. There seems to be, however, a serious omission as no member is directly concerned with the education of architects and builders. In nearly every edition of all the technical journals there is some reference to education and training and their importance to the industry. In view of the vital responsibility carried by the Schools of Architecture and Colleges of Technology in the development of the industry, it seems a great pity that they are excluded from representation in this important team of experts.

T. E. HALL,
Head of Dept. of Building,
Sheffield. College of Technology.

Poplar Flats

SIR,—With reference to the otherwise excellent scheme recently erected at Poplar by the Borough Engineer and published in the JOURNAL of July 21, I cannot condemn too strongly the regimented conception.

Why should these well designed flats all have exactly the same dismal aspect? It would have been possible to site them with far more imagination; and in any case the unfortunate inhabitants of the centre block will surely in time suffer from the "look to your north-east (or any other suitable adjective) front" complex?

Middlesex PETER J. WATKINS

Concrete

SIR,—THE ARCHITECTS' JOURNAL of June 30 gave a report of Mr. J. Singleton-Green's address at the meeting of the Reinforced Concrete Association, and he was accredited with the statement that concrete is usually made by "unskilled" labour. A claim such as this needs rather careful consideration before acceptance, and I am inclined to think that the number of skilled "concretors" is much larger than Mr. Singleton-Green would lead us to believe.

For many years I served as an architect in one of the Government Departments, and there we had a very large class of "skilled" labourers who were paid more than the ordinary labourer because of their intimate knowledge of various classes of work which came outside the scope of the recognized building "tradesmen." Among the members of this class, we had a number of very skilled concretors, who were given that designation under the general title of skilled labourer; and I know that this system, or something closely analogous, is followed in other Government Departments and also in a large number of big building and contracting firms.

Generally, concreting work of any size was done in my Department under the supervision of a junior foreman or "leading man," with intimate knowledge of concrete technique, which was especially needful as a great deal of the work we were doing was subject to sea water and very rough weather conditions.

I agree with Mr. Singleton-Green that the more information that can be imparted to the workmen who do concreting work, the better will be the results, and the fewer unsightly concrete buildings in various stages of disintegration we shall see.

London J. C. WHETTAM







This stand, prefabricated in Italy and shipped to this country in crates for the "News of the World" National Gardens Show at Olympia, which closed last Friday, was designed by Buffoni and Nizzoli, commercial designers, of Milan. It was constructed by G. Ponte, of the Industrial Theatre, Milan, and was erected for the National Gardens Show by Olympia, Ltd. The stand, which was designed to tell the public something of Italy and her produce, is simple to erect, for the wall panels and some of the shelves are joined by a system of interlocking. The sections of the framework shown on the right are linked by means of bolts, and the hardwood cabinets displaying produce are supported on brackets that are easily screwed in position.

ITALIAN EXHIBITION STAND

SOCIETIES AND INSTITUTIONS

Speeches and lectures delivered before societies, as well as reports of their activities are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full.

RSI

W. J. Durnford

July 13. Paper read at DISCUSSION ON HEALTH CENTRES at the Royal Sanitary Institute, 90, Buckingham Palace Road, S.W.1.

W. J. Durnford: Although the medical profession has been discussing for the last thirty years the question of the need for health centres, and the kind of service which should be provided for them, the design of the buildings necessary for this new combined service comes to the architect as a fresh problem. It is true that a number of buildings called health centres were erected by local authorities before the war, but these were limited to the provision of accommodation for the medical service for which the local authorities were responsible, and no provision was made for medical and dental services by general practitioners. So, in the past, with few exceptions, the various health units were located in widely separated buildings. The essence of the conception of the new health centre is, however, the fullest possible integration of the preventive medical services, hitherto the special province of the local authority, with the curative services which are the functions of the family doctor, supported by the hospital service. This concept implies the provision of a specially designed and equipped building, housing under one roof a group of doctors and dentists, supported by a staff of nurses, midwives and clerks, who will carry out, in a co-ordinated way, all the work at present done by public health clinic doctors and general practitioners, and having an organized association with the local hospitals.

Here is a problem for the architect for which no precedent exists in this country, and in the initial planning of such a building the closest co-operation is necessary with all the various authorities and individual specialists from the earliest stages, in order that their complex requirements can be satisfactorily resolved.

For some time to come much of the planning will be experimental, and it is essential that health centre design should remain flexible. The site for a centre must be within easy reach of the homes of the people who will use it, particularly that of the mother who walks with a pram. For London, it is hoped that when the whole building scheme is completed, no one will be more than about a mile distant from a health centre. Public transport facilities must be reasonably available, and therefore the site must be near a main traffic road, and yet afford a quiet approach for school children attending the health clinic and patients attending the ante-natal and child welfare units. If possible, it should have an open aspect to the south, south-east or south-west, in order that sunlight may enter the rooms used by the various clinics, and if it can face an open space or wide view this will give pleasure to the occupants of the building.

SIZE OF BUILDINGS

If the building is to contain units similar to those in the Woodberry Down Health centre, that is, medical practitioners' and dental surgeons', school health, child welfare, ante-natal, remedial exercises, and child guidance and a foot clinic, and is to be generally of two storeys in height, then about an acre to an acre and a half of land is required, and about 40 per cent. of this will be covered by buildings. It is most important that the building should have a pleasant setting, and some openness is essential in order to allow for a certain amount of planting and for lawns.

The number of storeys the building should have is a matter for argument. It has been found that most of the services ask for their accommodation to be on the ground floor. This, of course, is likely to be impossible where land is restricted, and there undoubtedly will be many sites smaller than that quoted, where it will be necessary to plan vertically, and any unit accommodated above the first floor will have to be reached by lift.

Another planning question where opinions still differ is in the approach to the various units. Should this be from a single entrance to a large central space, from which corridors would radiate, leading to the various units, or should all units be arranged to have their own entrances and waiting spaces, so reducing to a minimum congestion and cross traffic? Only experience of working will show whether the question of the necessity for supervision of these entrances will arise.

In planning, the inter-relationship of the respective units must be borne in mind: the close tie, for example, between ante-natal and child welfare and the desirability of having the medical practitioners' and dental surgeons' units in near proximity.

We now come to the consideration of some of the individual units which will comprise the health centre. The units for the medical practitioners and dental surgeons are of the first interest because here there are no examples to guide us in the detailed planning, and the accommodation is to be rented by private practitioners. It is felt that the units should be placed on the main frontage of the building with access from the main traffic road. The position may have the disadvantage of traffic noises entering some of the consulting rooms, but this can be mitigated, to a great extent, by the use of double windows, by setting back the building from the road, and by judicious tree planting and garden layout. The advantage of such a position from the publicity point of view and the convenience of access by the patients is obvious. Parking facilities for patients' cars are a necessity; when petrol restrictions are lifted the attendance of patients in cars is likely to be greatly increased. Heated garage space for the cars used by the doctors is thought by some to be desirable.

At Woodberry Down the whole of the six medical practitioners' suites are located on the ground floor, approached by corridors from their separate main entrance. Here there is a small waiting hall, capable of accommodating about twenty-four people if necessary, but the temptation to save space by the provision of large common waiting rooms has been resisted; the small waiting room in each doctor's suite will prevent the tendency for the atmosphere of the hospital out-patients' department to develop. A receptionist's office adjoins, with a counter for the issuing of cards and general information, and space for records and the telephone switch board. To what extent records will be kept here or in the doctor's own rooms cannot yet be decided. There is also a room for nurses.

In the doctors' suites, the waiting rooms have an average size of 14 feet by 12 feet, that is 168 feet super, and will accommodate about twenty patients. Experience will show whether this size is adequate. Until the optimum number of patients per general practitioner has been determined and reached, the amount of floor area to be allocated to this service cannot be stated with certainty, and where it is at all possible allowance should be made for extensions which may become necessary to the general practitioner and dental sections.

The waiting rooms, to be attractively furnished with bright curtaining and furniture of good design, adjoin the doctors' consulting rooms. It will be a convenience to plan an exit lobby from the consulting room and examination room, as this will allow the patient to leave without returning to the waiting room. An isolation room should be planned on the ground floor immediately adjacent to one of the entrances in order that infectious cases can be easily removed by ambulance.

FIRST FLOOR LAYOUT

At Woodberry Down this is the extent of the accommodation of this unit on the ground floor, and the remaining facilities are placed immediately above on the first floor, approached by two wide easy-going staircases. Here we have the minor operations room, with rooms for sterilizing and dressings adjacent, a recovery room, and a suite for the testing and treatment of eyes, which will also be available for the use of visiting specialists.

We now come to the dental surgeons' accommodation, which, in the same building, has been placed on the first floor. There are to be two surgeries, 14 feet by 12 feet, with a recovery room between them and a workshop. A point to be remembered is that dental surgeries should face either north or east, as the entrance of sunlight is not desired, although there is a need for the maximum amount of natural lighting. The dental surgeons will have access to an X-ray apparatus in another part of the building on the same floor for dental examinations. A similar suite with two dental surgeries is placed near by for the public health service.

A receptionist's office with adjacent waiting space, and a duty room for nurses, together with a small drug store, and sleeping and bathing accommodation for the doctor on night duty, complete the room provision in the medical practitioners' and dental surgeons' unit. A small drug store has been included merely to supply the immediate needs of the unit, and not for dispensing prescriptions issued by the medical practitioners, but it will undoubtedly be necessary in some health centres to provide a carefully designed and fully equipped pharmacy with large storage space.

Coming to structural matters, as in most of the accommodation the maximum of daylight will be desirable, and for ease and speed in construction a steel or reinforced concrete-framed building is indicated, planned to a unit grid of about four feet. At present, however, the Ministry of Health has stressed the necessity for conserving structural steel to the utmost, and at Woodberry Down, using a grid of four feet, a composite method of construction has been adopted, employing a reinforced concrete frame for the external walls, tied back at regular intervals to internal weight-carrying brick walls. On these frames and brick spine walls rest pre-cast floor and roof beams. These frames, carrying continuous ranges of windows, will allow of easy adaptation of the light internal non-load bearing partitions when at any future time this becomes desirable.

FINISHES

Externally, panel filling is by hollow brick walls, and these and all other wall expanses are to be finished with facing bricks. Internally, walls will be plastered and finished in most cases with an impervious plastic compound. This finish can have either a glazed or matt surface in pastel shades, and is really washable. Wall tiling will only be used for splash backs behind lavatory basins and sinks.

The floors of most rooms will be covered with composition floor tiles. Though the surface of these tiles is very wear-resisting, they have a certain rubber content which renders them less tiring to the feet. Terrazzo floors will be employed in special rooms, such as minor operations, sterilizing and dressings, the doctors' clinical side room, and dental workshops, but in the lecture hall hardwood strip flooring appears desirable; the only position where wood flooring is suggested. In corridors, to reduce noise, the intention is to use rubber flooring with terrazzo margins.

Windows will be metal casements, with ample opening parts for ventilation, and the double windows previously mentioned will have baffles between them, so that, although keeping out sound, they may be opened to allow the ingress of fresh air. Doors will be either of flush pattern or fully glazed. To eliminate sanitary and service pipes from view, a horizontal duct from the floor up to the internal window-sill level will be provided on the first floor, with vertical ducts connecting to the main duct below the ground floor. Heating will be effected by centralized, forced circulation, low-pressure, hot-water system, working at low temperature in conformity with modern design. The installation has been designed with wall-panel radiators throughout the first floor, presenting a flush surface with no lodgment for dirt or dust. Elsewhere modern hospital radiators will be fixed.

The hot water supply will be obtained from two hot-water boilers and a large storage cylinder, and will be circulated by a motor-driven centrifugal pump to all draw-off taps. The temperature of the water will be controlled thermostatically to circulate at a temperature of from 130° to 140° Fahrenheit. Electrically-heated sterilizing equipment will be installed for the minor operations room, examination and dental rooms where instruments are used. Fluorescent lighting will be adopted generally for all working rooms, and dental X-ray apparatus, ultra-violet and infra-red light treatment equipment will be installed. A complete telephone system with internal inter-communication will be provided; also a call bell and indication system between the medical practitioners' consulting and waiting rooms. Internal decoration will be carefully studied in varying pastel shades, and fabrics and furniture chosen for their good design.

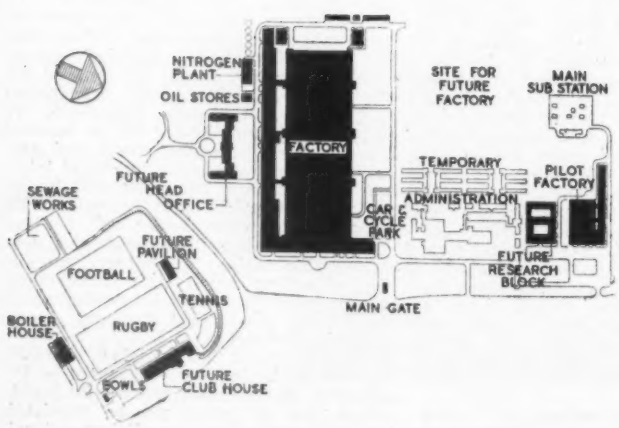
It is to be hoped that conditions of building will rapidly improve and output be increased so that the many schemes for health centres now on paper can be translated into buildings to house an efficient national health service.



The factory from the boiler house at the east of the site.

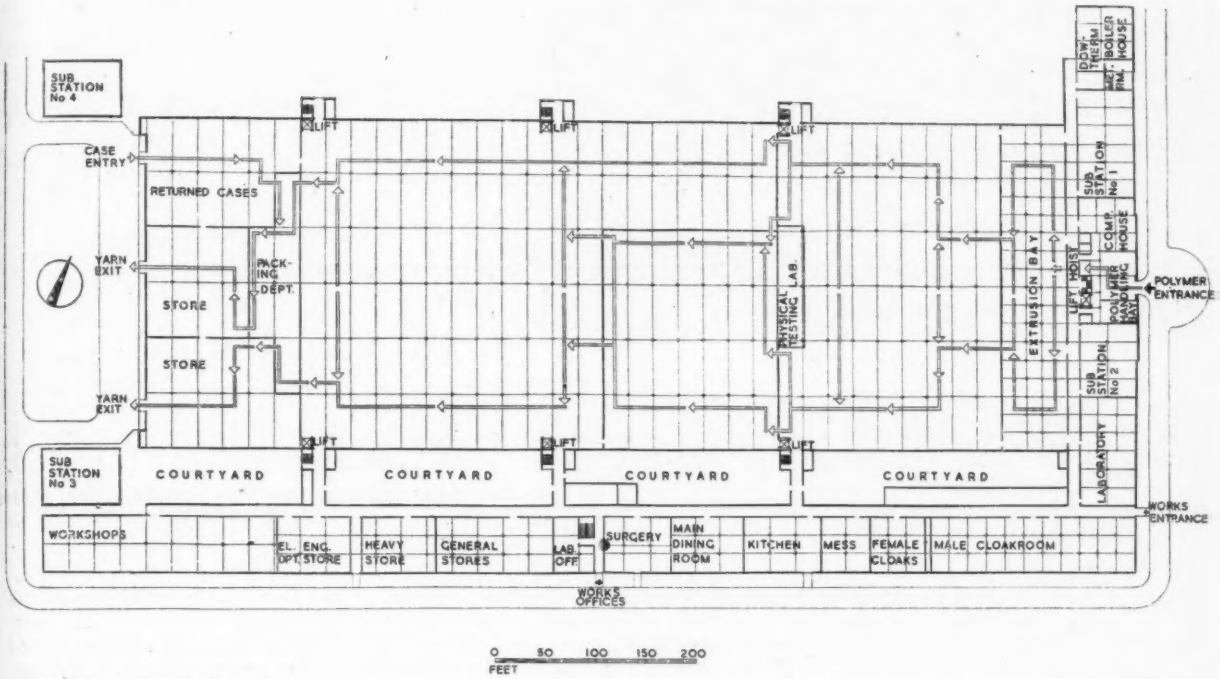
FACTORY AT PONTYPOOL

DESIGNED BY SIR PERCY THOMAS AND SON



SITE PLAN

GENERAL.—This factory is to form the source of all nylon yarn produced in Great Britain, and its function is to process the raw material, nylon polymer, through all stages of treatment and spinning to the delivery of the completed yarn. Choice of location for a nylon factory is limited in some degree by the demands of the manufacturing processes. As the air in the Pontypool area is free from harmful impurities, a site was selected there, and the general flatness of the surrounding land facilitated construction. Geological survey of the area showed red marl, overlain in parts by glacial drift. Before excavations were commenced, test pits and borings were made. Resulting



GROUND FLOOR PLAN

Central tower of the factory in the east facade, and the entrance at which the raw material is received.

from these tests, foundations were carried down through the drift strata to the marl, which has a high bearing capacity. This minimises danger of settlement, especially when future extensions are made. The total quantity of excavation was about 350,000 cubic yards.

PLANNING.—The first main design problem was to secure a uniform and unimpeded production flow, with all stages in se-

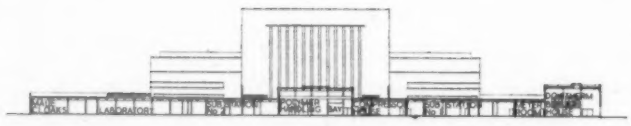




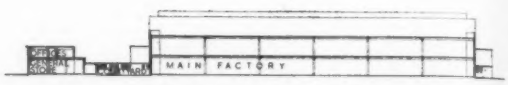
SECTION THROUGH SOUTH BLOCK



SECTION THROUGH THE MAIN FACTORY



SECTION THROUGH THE EAST BLOCK



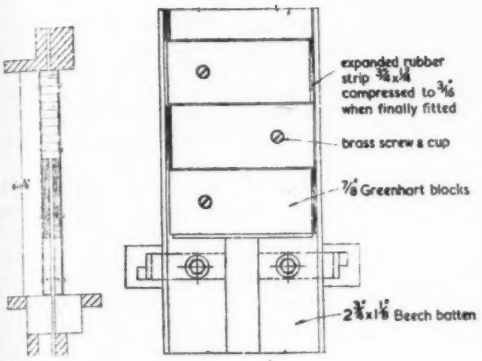
TRANSVERSE SECTION THROUGH MAIN FACTORY

quence and providing the greatest possible ease of operation. A second problem lay in the fact that the entire factory had to be air-conditioned, with certain processes requiring temperature and humidity control within very close limits. The question of welfare, amenities and recreational facilities also demanded much consideration, and the scheme when completed will include a fully-equipped sports ground with social centre. The key to the factory layout lies in the large central block, with its tower and entrance. The symmetrical design of these is governed by the uniflow system of production. Raw nylon polymer is received at the main central entrance, from where it is handled by

Pilot factory at the edge of the site to the north of the main factory.

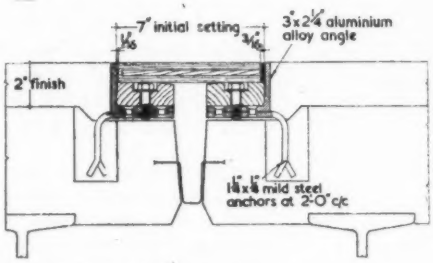


FACTORY AT PONTYPOOL : *DESIGNED*



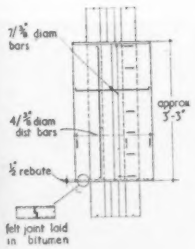
PLAN PLAN

[Scale: 1/2" = 1'0"]

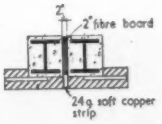


SECTION [Scale: 1/2" = 1'0"]

DETAILS OF FLOOR EXPANSION JOINTS

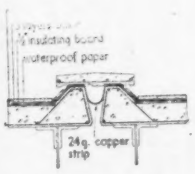


PLAN OF COPING BLOCK

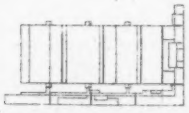


PLAN AT HEAD OF TWIN COLUMNS

[Scale: 1/2" = 1'0"]



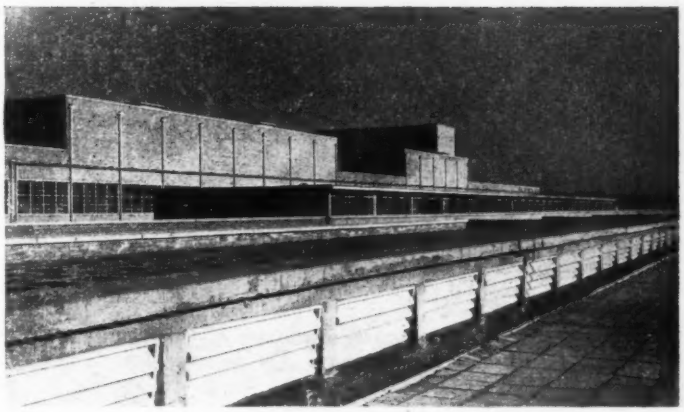
SECTION

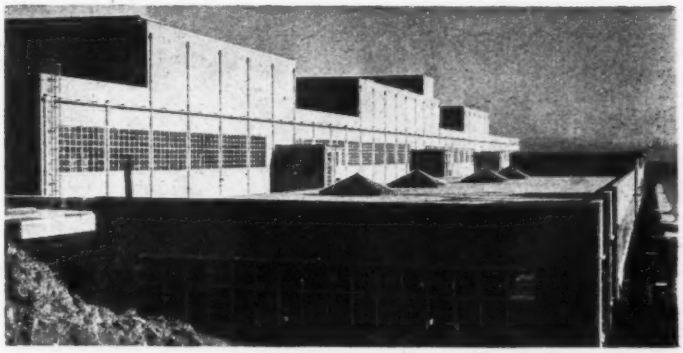


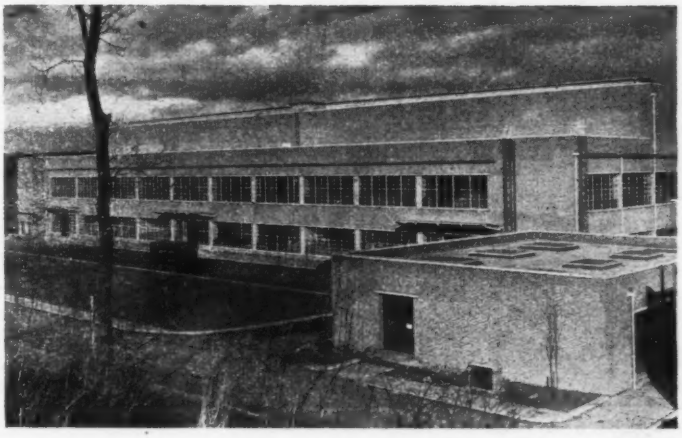
PLAN OF FACTORY: THICK LINES INDICATE EXPANSION JOINTS

DETAILS OF MAIN ROOF EXPANSION JOINTS









Right, reading from top to bottom: the pilot factory; the main factory, from the roof of the nitrogen plant; the main factory from the south-west, and the dispatch block.

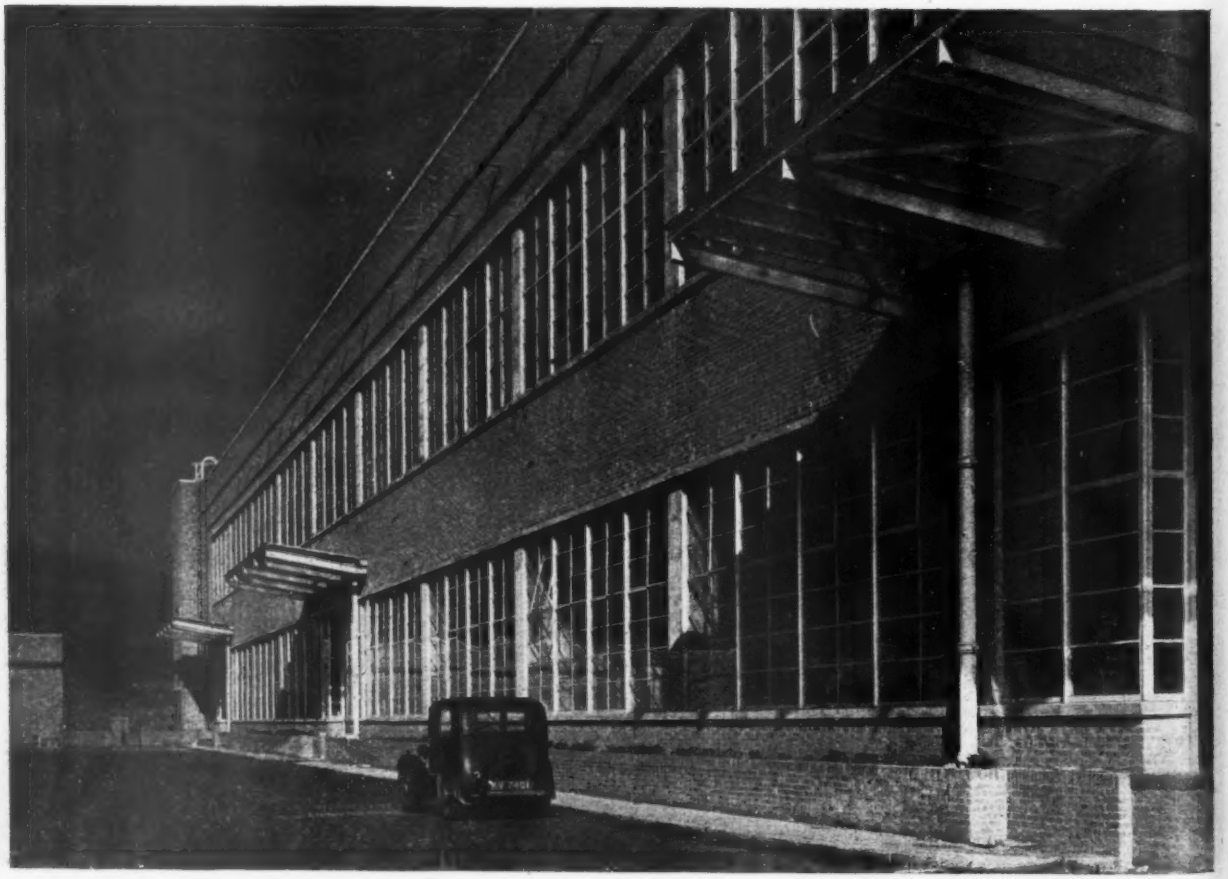
BY SIR PERCY THOMAS AND SON



Above : the main corridor along the north side of the administrative block. Below : the dispatch area of the main factory.

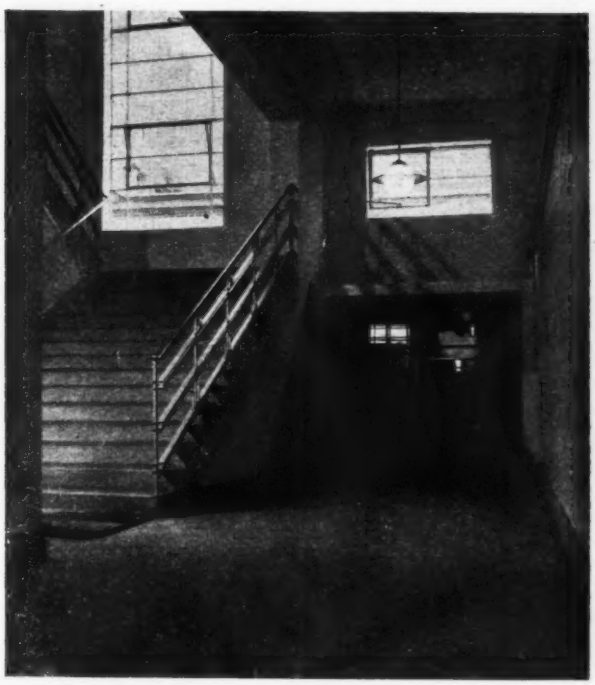
crane to the top of the tower, descending through various processing departments to the packing rooms at the extreme end of the factory. The south block contains, on the first floor, the administrative offices, and on the ground floor the workshops, stores, mess and dining rooms, kitchens and cloakrooms. This block is linked to the central block by connecting corridors, the courtyards thus formed being designed as small formal gardens, visible from much of the whole building. The east bay includes the laboratory, two power sub-stations, the polymer handling bay, and the boiler-house for the air-conditioning plant. The works entrances lead direct to the main corridors, east-west and north-south, which form the main circulation arteries for the entire plant.

CONSTRUCTION.— The building is steel-framed reinforced concrete, with floors and roofs of varying thicknesses of reinforced concrete. Outside walls are brick cavity, 15½ in. thick, for the central block and the tower, and



FACTORY AT PONTYPOOL : *DESIGNED B*

11 in. thick for the south block and east bay. Internal walls are 9 in. or 4½ in. brick. Steel partitions are used for sub-divisions in all sections of the factory to provide small offices and rooms. Manufacturing requirements dictated the spacing of stanchions in the spinning area, and these are set at intervals 54 ft. transversally, and 25 ft. longitudinally. Ventilation ducts, 2 ft. in maximum depth, are accommodated in the floors. Floor to floor heights are 19 ft., giving a required 13 ft. clear height. Originally the intention was to weld all steelwork, but this was found to be impracticable; plate girders were, therefore, riveted, and only the steel columns were welded. The building is divided into a number of sections to limit movement caused by temperature changes. The largest of these units is 324 ft. wide and 250 ft. long. Facing brickwork is of 2 in. rustic brick with a ⅝ in. cream coloured joint. Window cills, copings and entrance surrounds are reconstructed Portland stone. In the central tower the

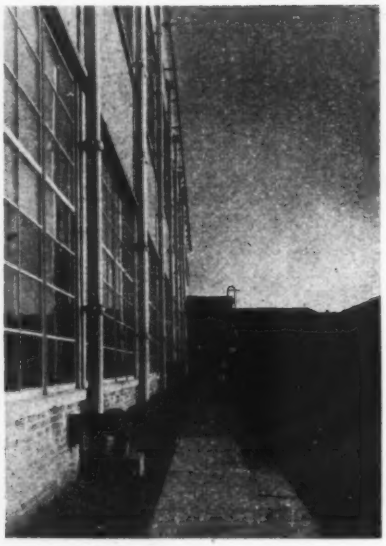


Above: staircase and hall of the administrative block. Below: a garden courtyard in the factory building.



BY SIR PERCY THOMAS AND SON

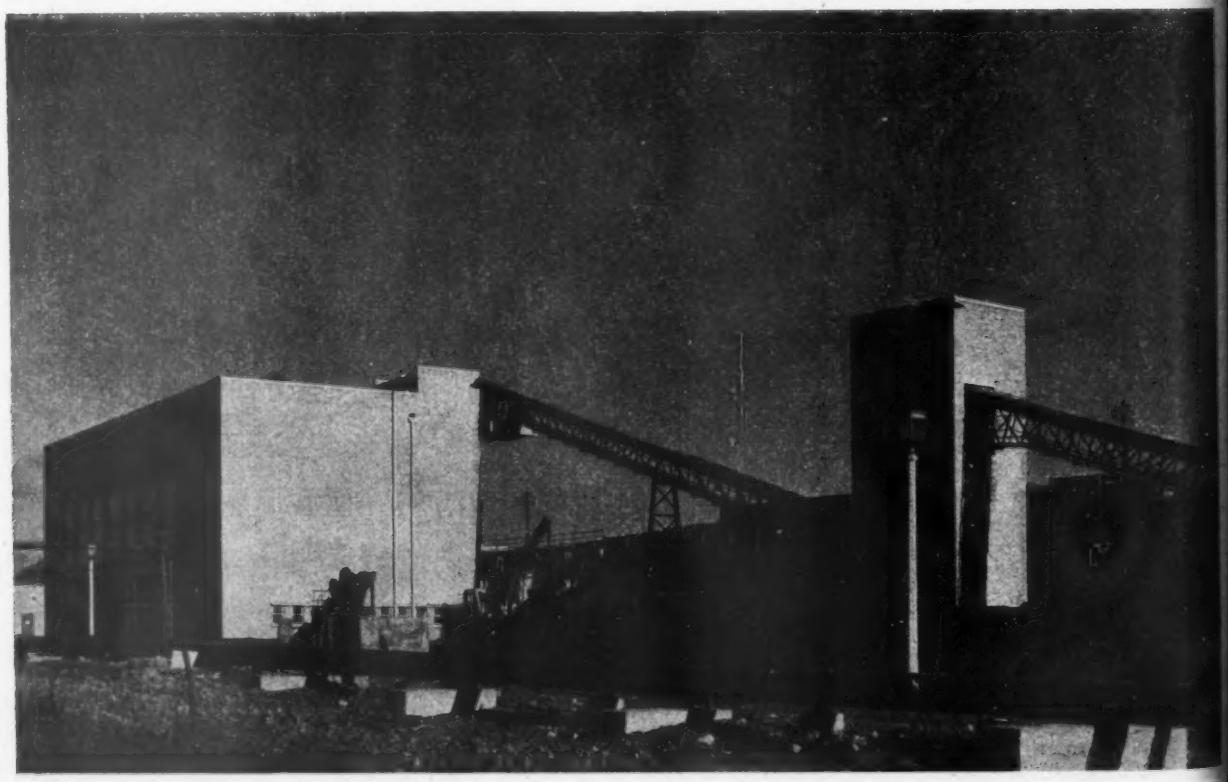




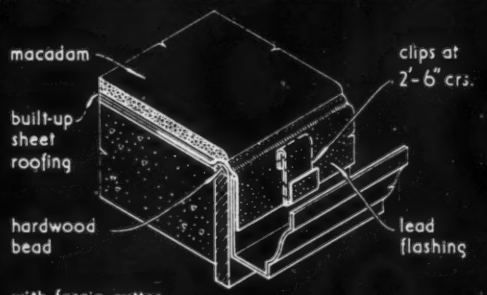
Extreme left, entrance to the works offices on the south façade of the factory ; left, a courtyard ; below, the boiler house for the air-conditioning plant, at the east of the site.

windows are of glass bricks, set in mullions of reconstructed stone ; the factory windows generally are steel casements.

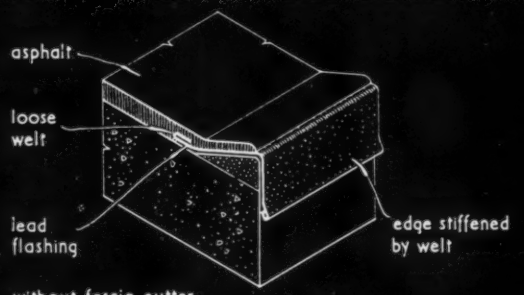
SERVICES.—In all stages of the design effort has been made to eliminate the tangled masses of exterior pipework usual in most nylon factories. To this end the large steam main from the boiler-house is mostly underground, and the exhaust flue from the air-conditioning plant is hidden by a parapet on its way to the central tower. The air-conditioning plant is complicated, comprising 39 separate sub-units, and the machinery is housed in four large chambers on the roof. Three of these sub-units include refrigeration plant. The General Contractors were Messrs Sir Robert McAlpine & Sons Ltd. For list of sub-contractors see page 160.



FACTORY AT PONTYPOOL

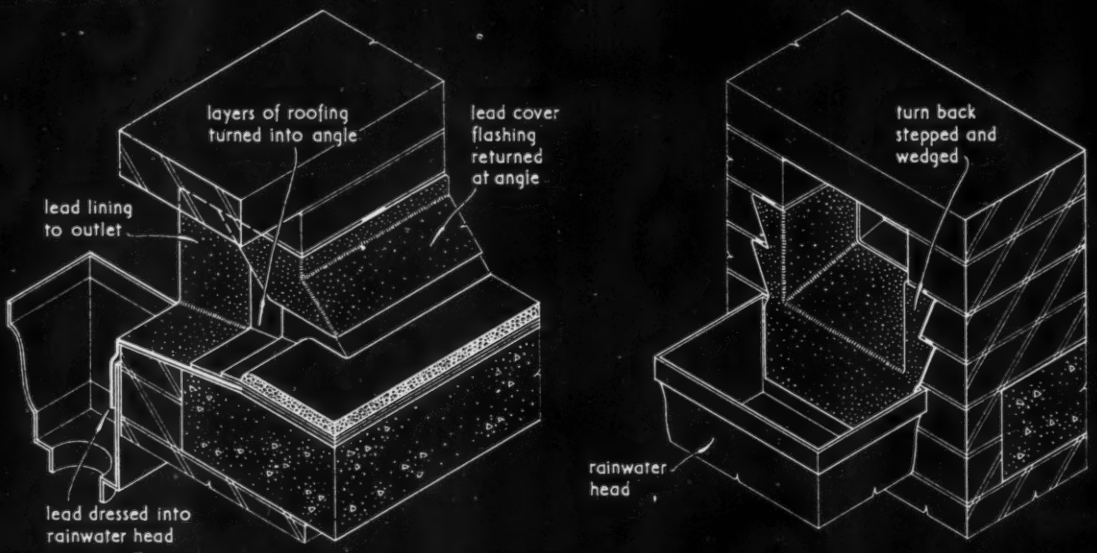


with fascia gutter

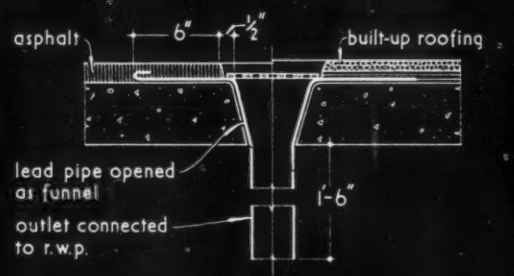


without fascia gutter

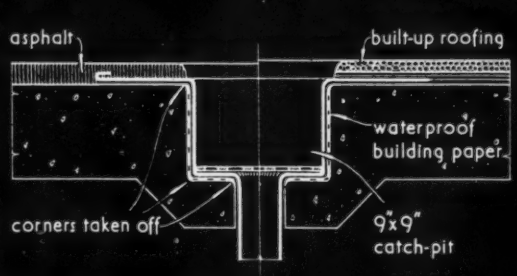
EAVES FLASHINGS.



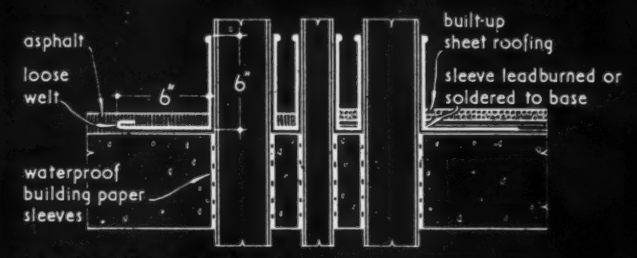
INSIDE SECTIONAL VIEW AND OUTSIDE VIEW OF CHUTE OUTLET.



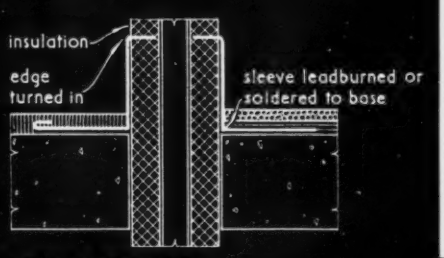
SIMPLE OUTLET



OUTLET WITH CATCH-PIT.



lead sleeve for group of pipes



lead sleeve to insulated exhaust pipe

FLASHINGS TO PIPES PENETRATING ROOF.

LEAD FLASHINGS TO ASPHALT AND BUILT-UP BITUMINOUS SHEET ROOF COVERINGS.

Compiled from information supplied by The Lead Industries Development Council.

10.G13 LEAD FLASHINGS TO ASPHALT AND BUILT-UP BITUMINOUS SHEET ROOF COVERINGS

This Sheet deals with lead flashings to asphalt and built-up bituminous sheet roof coverings. For this purpose lead sheet is used in a variety of forms ; for finishing at eaves and verges ; for use where pipes or other fixtures penetrate the roof ; for rainwater outlets and cess pits, and cover flashings to upstands at parapet walls. It should be noted that lead flashings used for these purposes may have one edge firmly and continuously fixed where it is bonded to the roof covering and because of this restriction on movement it is important that the pieces of lead be comparatively short in length to reduce the movement due to expansion and contraction. The maximum length is 7 ft. with joints made by 3 in. laps. The movement of the other edge of long flashings must be unrestricted, 2 in. lead clips at 2 ft. 6 in. centres being used if required to hold the edge against the tendency of the wind to lift it. With built-up bituminous roofings a situation to be avoided is dressing the free edge of the flashing on to a bituminous surface. Under the heat of the sun the bitumen may become tacky and adhesion between the two surfaces can occur with a consequent restriction of movement.

The edge of lead flashings which are bonded into asphalt are turned over to form a loose single welt which assists bonding. With built-up bituminous roofings the welt is not used as it would impair the bond.

Eaves Flashings

Two typical eaves flashings to concrete flat roofs are illustrated. With built-up bituminous sheet roofings the flashing is placed in position when the first layer of roofing has been laid and if it is carried over a half-round hardwood fillet a good finish to the edge of the roof covering is obtained. The free edge of the flashing is turned under in a single welt to stiffen it or preferably with fascia gutters lead tacks are fixed at 2 ft. 6 in. centres. Gutters tend to "channel" the wind thus providing a greater risk of the flashing being lifted.

Rainwater Outlet

Chute outlet: A typical chute rainwater outlet for built-up bituminous roofing as used with parapet wall construction, is illustrated. A similar arrangement is also used with asphalt covered roofs, but a modified arrangement in which the chute is in asphalt with a lead flashing may also be used.

Simple outlet: Simple rainwater outlets for flat roofs which drain towards central points, or for parapet gutters are formed by soldering or leadburning a length of lead pipe to a lead sheet flange. The pipe is opened up a little at its mouth to form a funnel. Where the outlet is connected to a rainwater down pipe beneath the roof the length of the outlet must be sufficient to permit the joint to be made in a straightforward manner, *i.e.*, 1 ft. 6 in. minimum.

Outlet with catch-pit: For large roofs the outlet may be formed with a sheet lead catch-pit which is bossed up or soldered or leadburned together. The corners of the structure should be taken off and the catch-pit lined, between structure and lead, with waterproof building paper. A lead sheet flange is soldered or leadburned to the catch-pit and a length of lead pipe of adequate length.

Flashings to Pipes Penetrating Roof

Where pipes penetrate asphalt or built-up bituminous sheet roofings a lead sleeve of 6 in. minimum upstand with a base extending 6 in. from the upstand, provides a suitable flashing. The base is soldered or leadburned to the upstand and the upstand is closely dressed to the pipe or alternatively two strands of 14 gauge copper wire are tightly twisted round the top with red lead jointing. Two typical examples of this type of flashing are illustrated.

Weight of Lead

The weight of lead for these flashings is usually 4 or 5 lb. but for flashings to pipes and rainwater outlets which require leadburning or bossing 6 lb. lead is preferable.

Further Information

The Lead Industries Development Council maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by :

The Lead Industries Development Council.

Address : Eagle House, Jermyn Street, London, S.W.1.

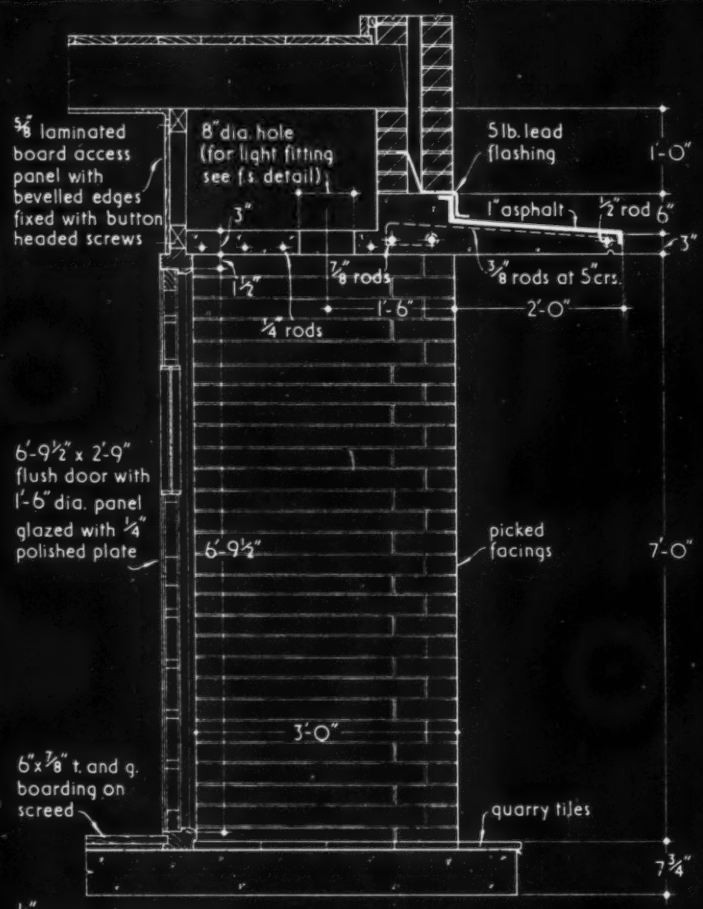
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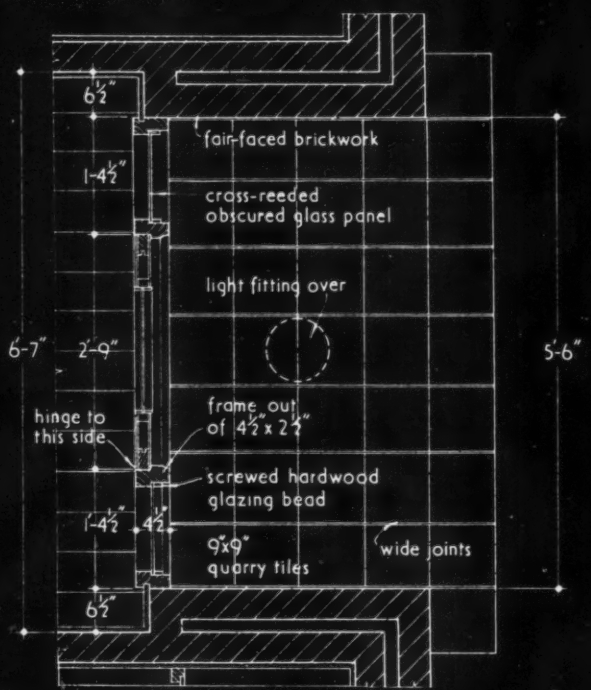
DRAUGHTSMANSHIP | ORTHOGRAPHIC PROJECTION

I.B21

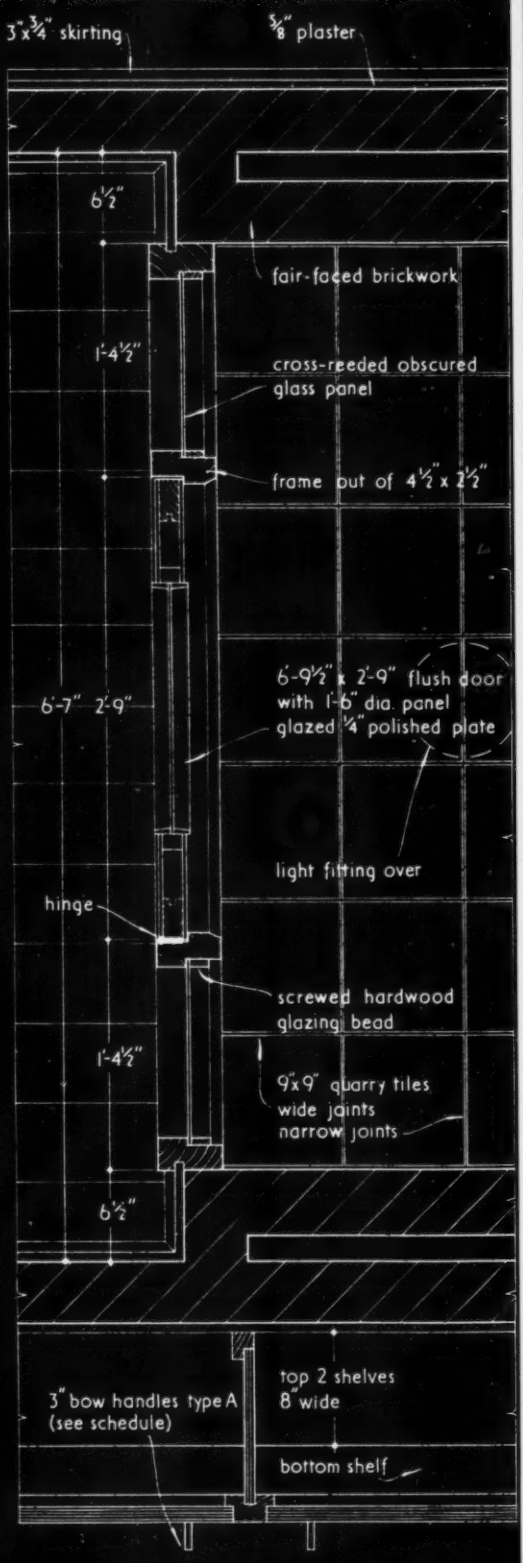
The Architects' Journal Library of Information Sheets 196. Editor: Cotterell Butler, A.R.I.B.A.



1/2" SCALE (SECTION).



1/2" SCALE (PLAN).



1" SCALE (PLAN).

1/2" AND 1" SCALE WORKING DRAWINGS. Compiled for Eagle Pencil Company—Chemi-Sealed Turquoise pencils.

1.B21 ORTHOGRAPHIC PROJECTION : ½-IN. AND 1-IN. SCALE WORKING DRAWINGS

This Sheet is one of a group recommending suitable standards for office working drawings to various scales and deals with ½-in. and 1-in. scales (1/24th and 1/12th full size respectively). Other Sheets deal with ⅛-in. scale, ¼-in., full size, etc.

One purpose of this group of Sheets is to assist the practising architect in standardizing work in his drawing office ; another is to suggest to the student a reasonable standard of presentation for practical working drawings.

Working Drawings Generally

All working drawings should be prepared as a complement to, and evolved closely with, the specification. Duplication of information should not be adopted except where special emphasis of a confusing detail is necessary.

½-in. Scale

The illustrations do not comprise a completed drawing but are parts of the plan, section and elevation of a typical small domestic house. Opinions on the value of ½-in. scale vary, but in recent years this scale has become less popular. It is inconveniently large for complete details of even small buildings and usually all that is necessary can be adequately shown on ¼-in. scale drawings. Study of a design cannot, in fact, be better carried out in ½-in. than in ¼-in. since the inclusion of plaster lines, etc., does not materially assist appreciation of the problem. At the same time ½-in. scale is, generally speaking, too small for joinery and similar details. The value of a ½-in. detail is chiefly apparent where complicated structural elements such as staircases, etc., require greater detail than can conveniently be shown to ¼-in. scale.

1-in. Scale

Drawings to this scale are usually sufficiently large to give a clear indication of almost all constructional details in building provided that adequate dimensioning is included.

B.S. Drawing Office Practice

These drawings have been prepared bearing in mind the recommendations of B.S. 1192: 1944, *Architectural and Building Drawing Office Practice*. Their recommendations have not, however, been accepted without reserve ; in particular the method of dimensioning with the numbers outside the dimension line has not been adopted.

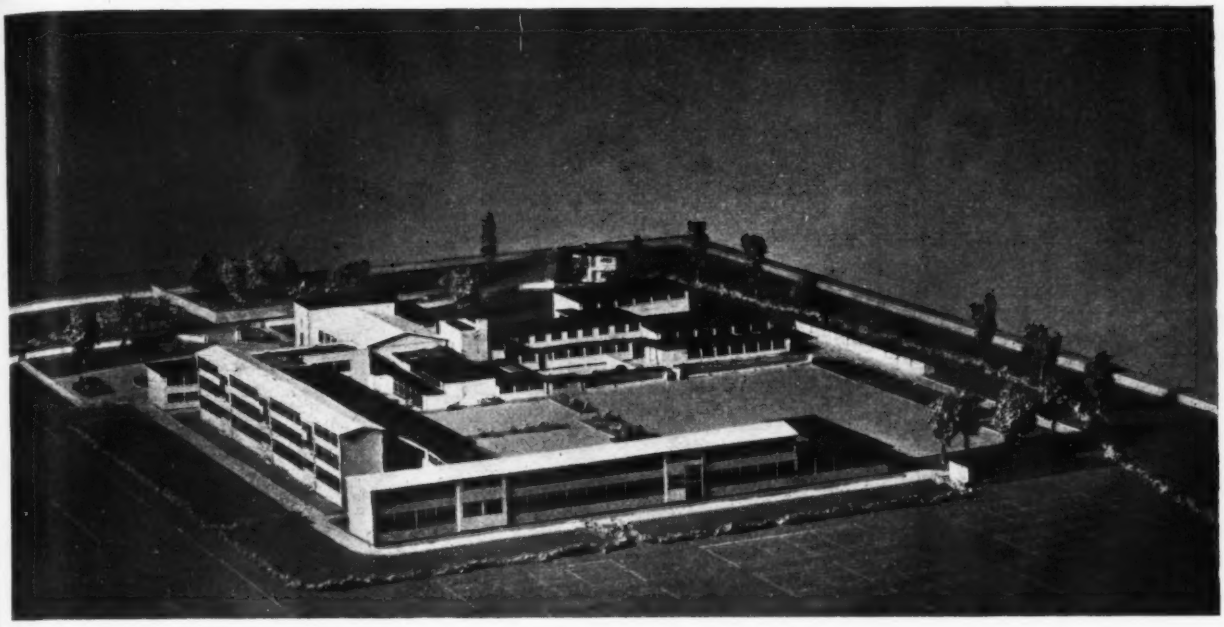
This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

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Model of the school from the north-east.

SCHOOL AT HORNCHURCH

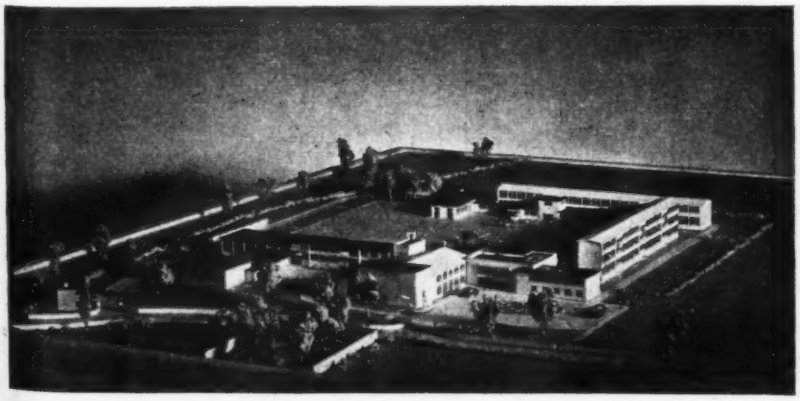
DESIGNED BY TOOLEY AND FOSTER

GENERAL.—This school for 600 boys and girls is to be built at Ford Lane, Hornchurch. The plan adopted for classrooms and practical rooms is of the elbow access type, and in order to preserve a compact plan the classroom block is to be in three storeys. This is the first post-war school with a three-storey classroom block to be approved by the Essex County Council. Externally it is proposed to use a light brown brick, and the pitched roofs are to be covered with copper. The consulting structural engineers are Messrs. T. F. Burns & Partners. The consulting heating and electrical engineers are Messrs. E. A. Pearce & Partners.

CONSTRUCTION. — The classroom and practical room blocks will be of steel frame construction with shop-welded and site-bolted connections. The floor will be of prestressed concrete filler beams at 20-in. centres with precast slab units and 2-in. foam slag insulation and screed for heating pipes, as floor panel heating is to be used. The foyer and library will be mainly *in situ* reinforced concrete construction and generally the remainder of the building will have weight-bearing brick walls and prestressed concrete beams.

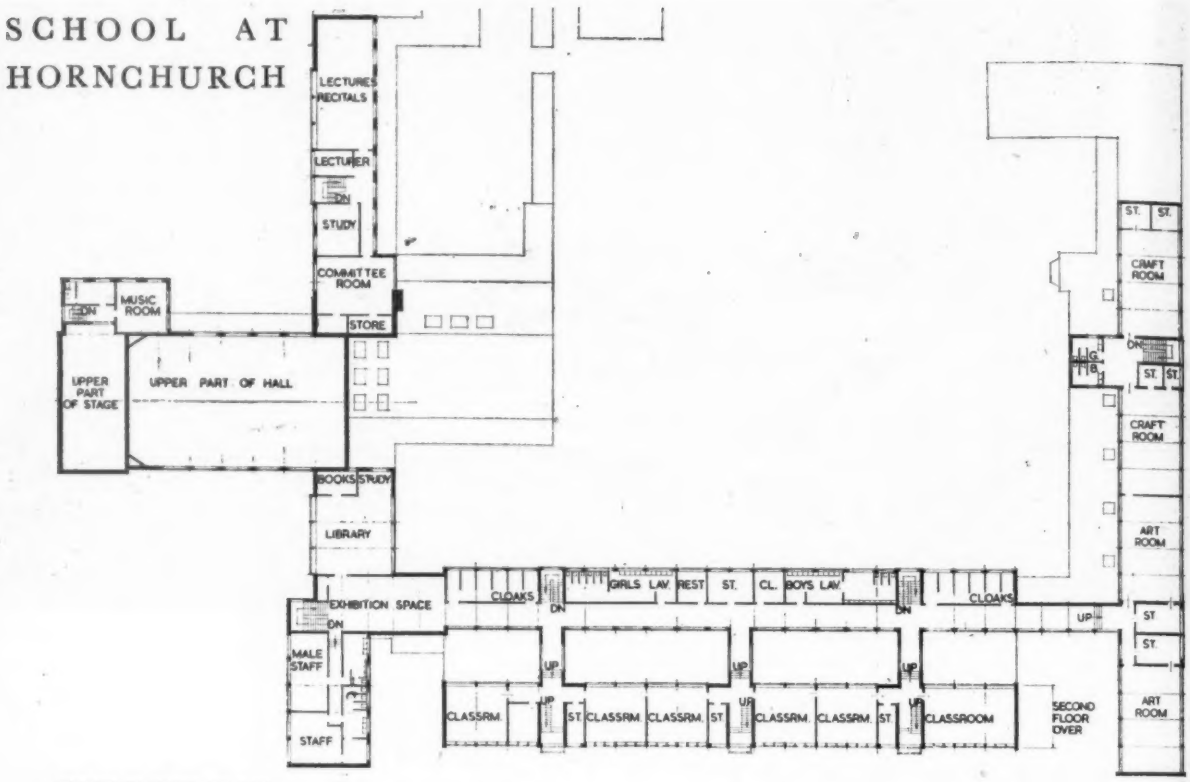
The assistant architects were C. L. Bird, and D. W. Watts. The model was made by H. D. Matthew.

From the south-west.

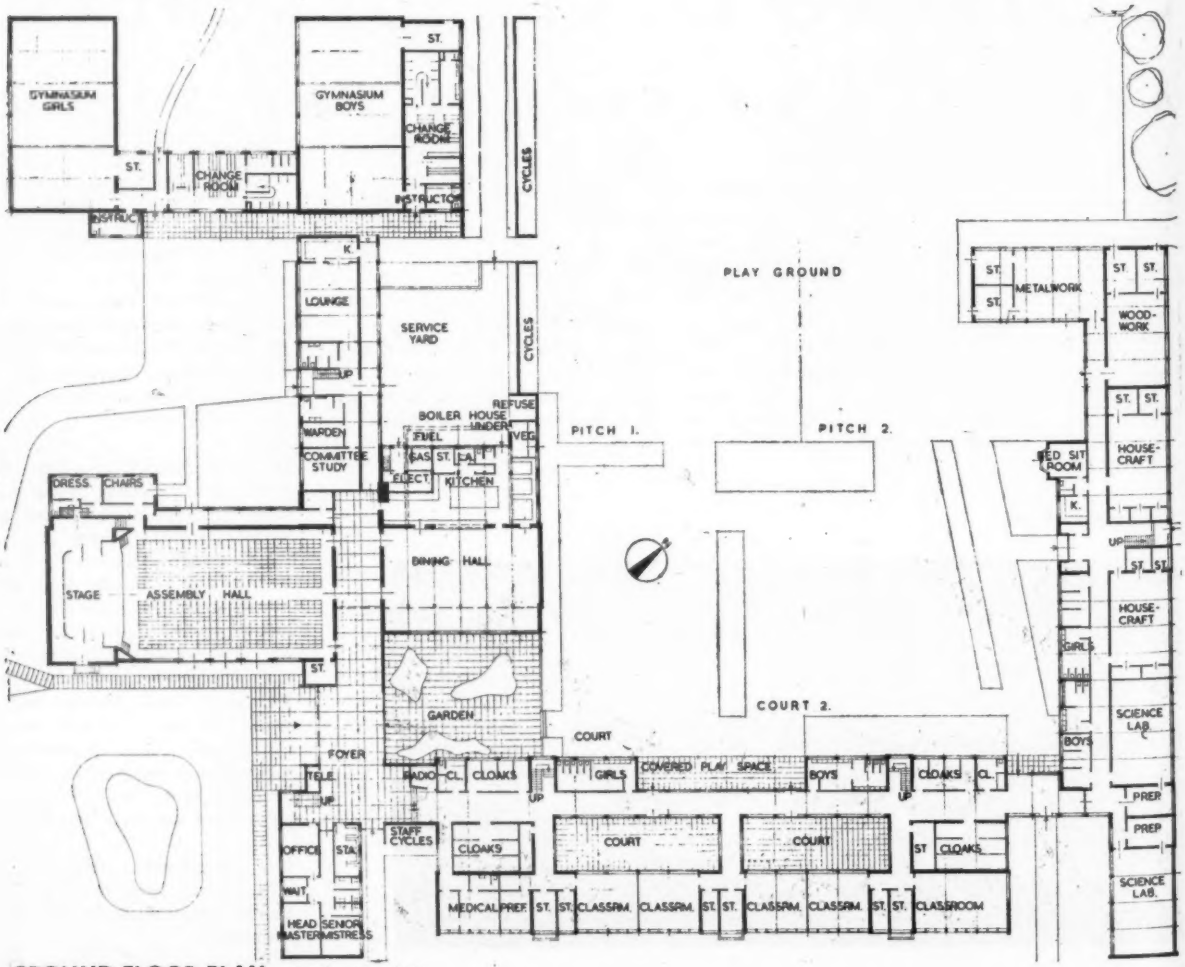


D

SCHOOL AT HORNCHURCH



FIRST FLOOR PLAN



GROUND FLOOR PLAN [Scale : $\frac{1}{32}$" = 1'0"]



From the west.

FACTORY AT LIVERPOOL

DESIGNED BY HARRY W. WEEDON AND PARTNERS

GENERAL.—This factory has been built to replace the factories lost by Messrs. Jacobs by bombing during air raids on the Liverpool area. Before laying down the plans of the new factory for garment manufacture, a careful study was made of the progress made in the United States and elsewhere, during the war and subsequently, in the types of equipment and of plant layout for economical line production. The clients required the minimum possible amount of obstruction of the open floor space.

PLANNING.—The factory has been planned on a grid unit capable of extension to the limits of the



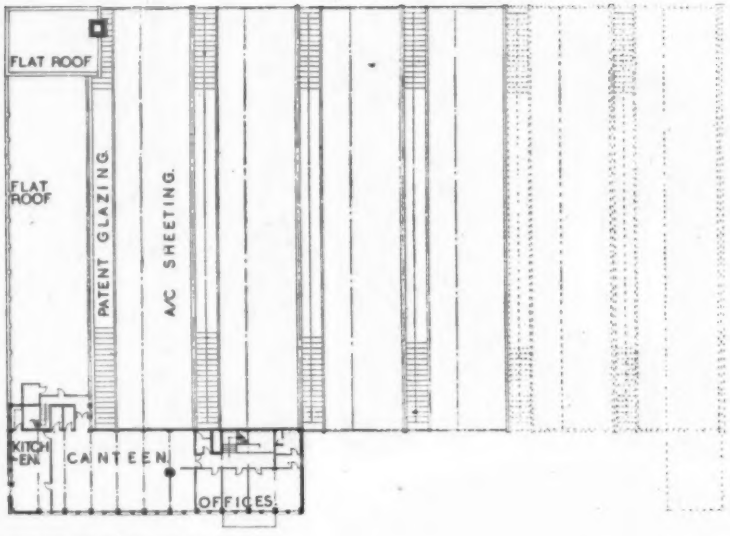
LONGITUDINAL SECTION



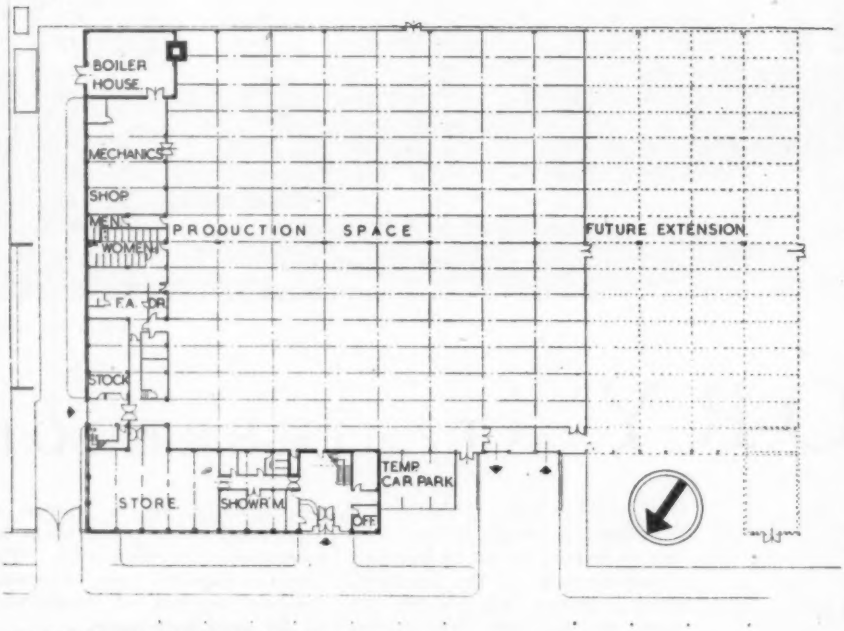
TRANSVERSE SECTION [Scale: 1/16"=1'0"]



The main staircase.



FIRST FLOOR PLAN



GROUND FLOOR PLAN [Scale: 1/16"=1'0"]

large site available, which has been taken from the Liverpool Corporation on their factory estate at Stockgate Lane. The present factory occupies only a comparatively small part of the total site available. All access is from Stockgate-lane, by way of the factory estate service road, although ultimately, when the site is occupied to the fullest extent, it will have a second approach from another road to the south-east.

The factory is orientated to the north-east and the pitch of the roof glazing has been calculated to exclude direct sunlight. The offices form a two-storey block on the north-west side, and are planned for extension to the westward. A single-storey flat-roofed block containing mechanics' shop, boiler house and works amenities lies along the north-east side, and can be raised another storey in the future.

CONSTRUCTION.—The building is steel framed and the main factory roof comprises a series of umbrella roofs carried by warren girders formed at the normal ridge points of the pitch form, but the "south" slope is extended to the true ridge where it meets the glazed "north" slope. The office block is of steel frame construction, with precast reinforced concrete hollow beam floors, and precast reconstructed stone window mullions and units spaced at intervals suitable for the formation of offices by the insertion of partitions.

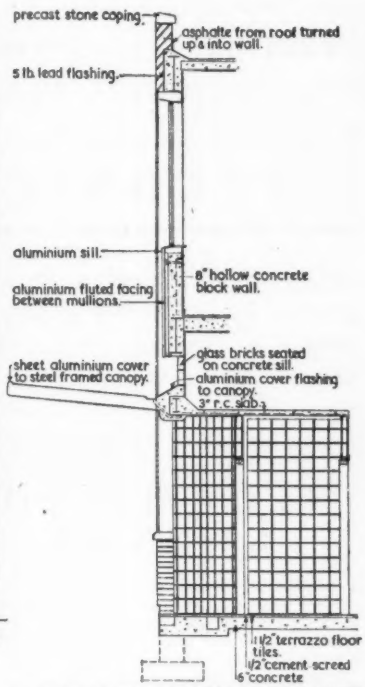
The windows are of metal sections, generally with sub-lights, and the panels between ground floor and first floor windows on

FACTORY AT LIVERPOOL

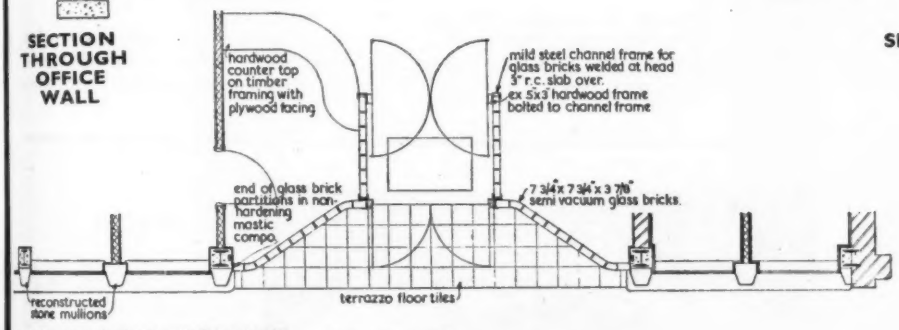


ELEVATION

SECTION THROUGH OFFICE WALL



SECTION THROUGH ENTRANCE



PLAN OF MAIN ENTRANCE [Scale: ¼" = 1'0"]

The Canteen.

the main frontage are of painted aluminium. Staircases are of reinforced concrete. Floors in the factory are of granolithic paving and in the corridors and hall of terrazzo. Those in the offices are of wood block.

HEATING.—Steam for heating domestic hot water and process work is provided by two oil-fired boilers, the boiler house being sited and prepared for future expansion of the factory. Heat in the offices is provided by hot water pump circulation through pipes and radiators from a steam-fed calorifier. Space temperature is maintained constantly by a remote control, operating thermostatic and motorized valves.

The general contractors were Messrs. William Moss & Sons, Ltd. For list of sub-contractors see page 160.



BY HARRY W. WEEDON & PARTNERS

INFORMATION CENTRE · INFORMATION SHEETS
QUESTIONS AND ANSWERS · CURRENT TECHNIQUE
THE INDUSTRY · PRICES · TECHNICAL ARTICLES

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

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1.12 sociology
POPULATION CHANGES: MAPS

Population Changes between the Wars: Maps. Ministry of Town and Country Planning. (Ordnance Survey, 1949. 5s. each sheet.)

Maps covering whole of Great Britain, in two sheets, at scale of approximately ten miles to one inch, showing total population changes for the periods 1921-31 and 1931-39.

The maps indicate, by the use of colours, which parts of the country show a population increase in recent years and which show a decrease. Certain rural areas such as parts of North Devon, Mid-Wales, and Montgomeryshire present a picture of steady population decline. Other decreases have occurred at the centres of the main conurbations, London, Birmingham and Manchester, with a corresponding increase at the same time on the outskirts of these districts.

The seaside shows population increases nearly everywhere, particularly on the south coast, partly in areas of good agricultural land, and partly on land of poorer quality.

Another change to be observed concerns the valley towns of the Pennines which show a decrease, the population having moved to the more fertile plains.

Further maps to be published shortly in this series will show population changes due to migration only.

2.90 planning: general
LAND VALUES: DEPRECIATION

The Claims for Depreciation of Land Values (Mineral Undertakings) Regulations, 1949. Statutory Instruments 1949, No. 1176, June 23, 1949. Central Land Board. (HMSO, 1949. 1d.)

Regulations extending period for making claims for payment in respect of depreciation of land values concerning certain interests in mineral bearing land from June 30, 1949, to December 31, 1949. Such claims are provided for in Section 58 of Town and Country Planning Act, 1947.

2.91 planning: general
LOCAL AUTHORITIES' LAND

Town and Country Planning Act, 1947, *Sections* 82, 83 *and* 92: *The Town and Country Planning (Local Authorities' Land: Exceptions to Section* 82) *Regulations,* 1948. Circular No. 71, April 4, 1949. Ministry of Town and Country Planning. (HMSO, 1949. 3d.)

Detailed definition of exceptions to Section 82 of Town and Country Planning Act, 1947, covering land which has been acquired under planning powers; land held for statutory undertakings; and land excepted by Regulations. Notes on land bought at restricted value, and on types of land which correspond to land in private hands.

7.24 practice
BUILDERS' PLANT

The Control of Rates of Hire of Plant Order, 1949. Statutory Instruments 1949, No. 567, March 28, 1949. Ministry of Works. (HMSO, 1949. 2d.)

Order replacing previous *Control of Rates of Hire of Plant Order,* 1948 (S.I. 1948, No. 792). New amendments concern maximum rates of hire for concrete mixers; substitution of 48 hour week and 8½ and 5½ hour day for rollers by 44 hour week and 8 hour day; and separate maximum rates of hire to be adopted for scrapers. Detailed schedule contained in present Order lays down rates of hire under headings of item of plant; description; maximum rates of hire; and period.

7.25 building geometry
PRACTICE

Newnes' Building Geometry Examination Questions with Model Answers. Noel Lees Reece. (George Newnes, Ltd. 1949. 10s. 6d.)'

Gives a series of worked answers to actual examination questions set in recent examinations for the National Building Certificates,



THE LIBRARY OF INFORMATION SHEETS COMPLETE TO JUNE 30, 1949

To enable new subscribers to complete their Library of Information Sheets, all Sheets published since the inception of the new series in October, 1947, have been reprinted. A set of 182 Sheets (those current at June 30, 1949), arranged in correct classified order in two specially designed loose leaf binding cases, is available, price 45s. 0d. The 182 Sheets without binding cases are available at 36s. 0d., individual Sheets 3d., binding cases 4s. 6d. each.

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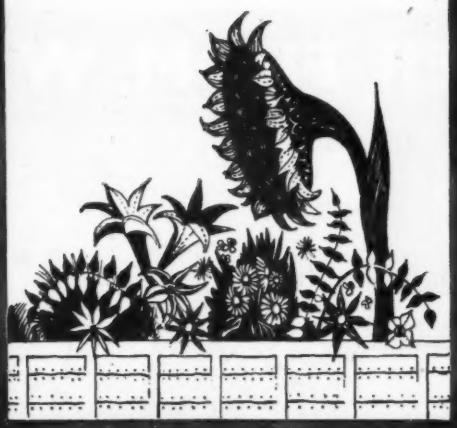
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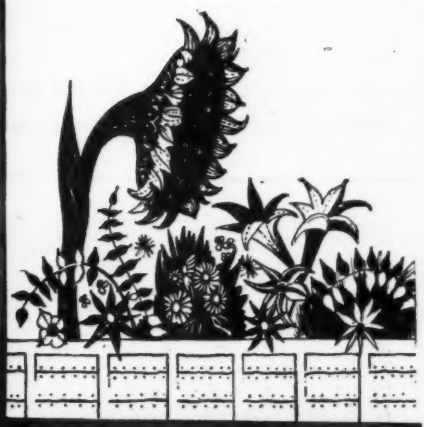
NAME

ADDRESS

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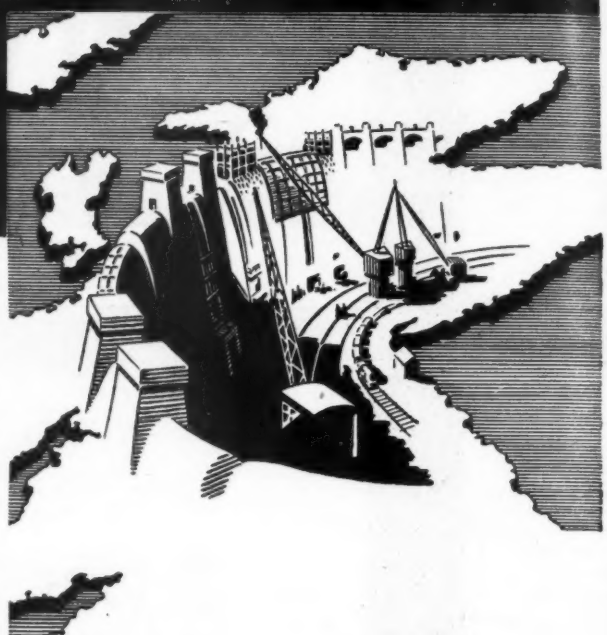
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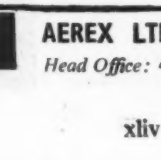
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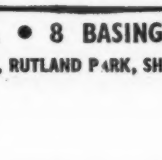
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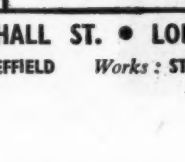
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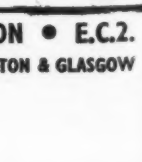
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together with a glossary of geometrical terms and definitions. 208 pp.

The answers are set out very conveniently with the text describing the construction facing the page showing the actual illustration. 92 questions are covered which are well graded and have a sound practical bias.

The book should prove particularly valuable to students preparing for their examinations providing, as it does, the type of question they will be asked to solve and the method of presenting their answers.

9.10 planning: general
STAGE PLANNING, EQUIPMENT

Stage Planning and Equipment for Multi-Purpose Halls. P. Corry. (The Strand Electric & Engineering Co., Ltd., 29, King Street, Covent Garden, W.C.2. 5s.)

A really excellent short textbook about small stages and their equipment. Very clearly written and illustrated. pp. 115.

This small book is an example of the way in which technical information is best presented to architects. There are seven sections to the book: the first deals with some theoretical problems in the design of stages for multi-purpose halls—with special reference to schools, and the second with detailed information about stage equipment. The third deals with stage lighting equipment, and the fourth and fifth respectively with equipment for existing stages and stages in junior schools. Section 6 is a schedule of equipment (with approximate costs) and section 7 a very useful glossary.

The subject matter is dealt with factually, and in the choice of illustrations there is a sensible balance between drawings and photographs.

The text is not lacking in humour despite the essentially practical manner in which it is presented.

If one were to find criticisms, they would be first, that some of the problems in secondary schools such as the provision of "free activity space" are not fully recognized and second, that there is throughout a bias towards over-equipment, especially in so far as junior schools are concerned where the *theatre* form may not be altogether appropriate. Money permitting, however, there is every advantage in providing in the first place what is so often added inconveniently at a later date.

To anyone concerned with schools, village halls or small theatres who is not already thoroughly familiar with stage design and equipment, there could hardly be a better guide.

10.59 design: building types
BUILDING FOR ATHLETICS

Building for Athletics and Recreation. Frank G. Lopez. (Architectural Record [USA], July, 1949, pp. 116-138.)

American examples of stadia and gymnasia.

The article describes a number of recent municipal and school buildings for sport, which show the use of structural steel, reinforced concrete and timber in this type of construction. From the structural point of view, of particular interest are two gymnasia in laminated timber arches, claimed to be the most economical means of spanning the required space. In the gymnasium at Lincoln Hall, Lincolndale, N.Y., the arches have a clear span of slightly more than 80 ft. and the underside of the crown is approximately 25 ft. above finished floor. The arches of the gymnasium of Solebury school, New Hope, Pa., are bolted rather than pressure glued because the builder found he could fabricate them in his own shop more cheaply than he could buy them.

10.60 design: building types
FACTORY PLANNING

Management for Production. British Institute of Management. (The Institute, London. 1949. 2s. 6d.)

Booklet partially of interest to architects engaged on design of industrial buildings. Written mainly for managers in manufacturing industries showing ways and means to raise productivity. Sections dealing with work measurement, process planning, and shop layout and organization contain information of value in connection with initial design phases. Illustrated by diagrams. Short reading lists attached to various chapters.

17.56 construction: general
PRESTRESSED CONCRETE

Report on Prestressed Concrete. Cement & Concrete Association.

Recent developments in prestressed concrete structures. Well illustrated.

The first part of this booklet contains a digest of a lecture by the late K. W. Mautner, the second a report of a tour of inspection in France in 1948. It deals exclusively with the Freyssinet system. Dr. Mautner describes tests on a 17 ft. prestressed beam and on a multi-storey frame, the manufacture of sleepers, the construction of the Adam viaduct near Wigan which is the first prestressed concrete bridge in the country, constructed entirely with precast units (see 20.37). Nunn's bridge (see 20.74), the hangar at Karachi (see 20.51), the bridge over the Marne at Luzancy (see 20.24), a water inlet and discharge tunnel under the river Ribble. Among the jobs in France several more bridges and the water reservoir at Orleans are of particular interest. A factory producing prestressed concrete floor beams is also described.

One correction: the spans of the bridge at Wigan are only 30 ft. and not 50 ft. as stated in the report.

17.57 construction: general
TECHNIQUE OF BUILDING

The Technique of Building. By E. G. Warland. (Hodder & Stoughton, Ltd., for the English Universities Press, Ltd., London, 1949. 21s. net.)

Definition and illustration of the processes of building.

As the author states in the preface, this book defines and illustrates the processes of building and portrays the manner in which buildings are constructed from their foundations to their completion. He claims that the diagrams throughout this book are examples of the construction of buildings designed by many leading architects and that they illustrate the manner in which modern buildings are constructed.

The illustrations are indeed clear and as far as traditional methods are concerned the claim may be justified. Less satisfactory is the treatment of reinforced concrete and steel framed structures, as may be seen from the following examples.

On p. 176 it is stated that "reinforced concrete framed structures are designed so that the beams and pillars are in continuity, which condition is easy to obtain, because the concrete of the beams and pillars can be poured at the same time." Actually, for practical reasons, it is usual to stop concreting at the soffit of the beams and cast them at a later stage than the columns. But independently of the sequence of operations, this is not a clear way of explaining the meaning of continuity. On p. 191 the factor of safety is explained as the ratio of the ultimate strength of the material to the allowable or actual working stress and it is stated that for structural steelwork the value of the factor of safety is taken as 4 in most cases. This is entirely misleading, since the factor of safety depends on the yield point of the material and not on its ultimate strength, which can never be utilized in a steel structure. According to the latest Codes (CP.113: 1948 and BS.449: 1948) the permissible stress in direct tension is 59 per cent., in bending 65 per cent. of the guaranteed minimum yield point of the steel so that the factor of safety is in fact considerably smaller than suggested in the present book.

Welding is referred to in one sentence only and, although the author expects that welding will probably "take the place of riveted connections in the future," all illustrations are confined to riveted structures.

In spite of these shortcomings the book will be useful for students. Its usefulness would have been greatly enhanced if an alphabetical index had been added.

18.31 construction: theory
BULLDOG CONNECTORS

Tests on Bulldog Connectors. P. O. Reece. (Constructional Research Bulletin, issued by TDA.)

180 tests on the effect of the variation of the diameter of connector, diameter of bolt, direction of loading. Results shown in load-slip diagrams.

REFERENCE BACK

23.106. 21.7.49. The price of the Domestic Gas Handbook for Architects and Builders issued by the British Gas Council was omitted. The book costs £1.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

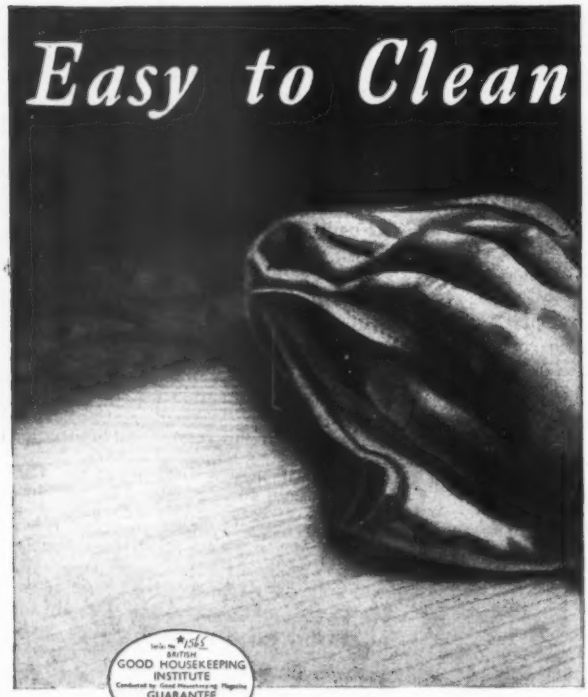
QUESTIONS AND ANSWERS

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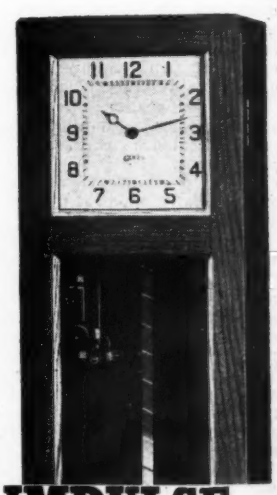
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THE INDUSTRY

By Brian Grant

A BALANCED FLUE GAS HEATER

The balanced flue principle for gas heaters is by no means new, but for some reason it has never been widely adopted in this country, although it has several advantages both from the point of view of installation and safety. Some months ago, however, Ascots showed a prototype balanced flue gas water heater, and Cowper Penfold have just announced a balanced flue space heater suitable for background heating, or for the full heating of rooms up to 700 cubic feet.

Briefly, in the balanced flue system the heater draws its combustion air from outside the building and not from the room in which it is installed. This means that the flue need not be carried up to roof level, but can be turned through the external wall, ending in a combined air inlet and flue gas outlet unit. It must be admitted that this does away with the ventilation normally provided by any flued heating appliance, but it should show a saving in installation cost, and there is no danger of down draughts returning flue gases to the room. Wind gusts will strike the inlet and outlet simultaneously and the appliance is able to burn more efficiently. There is no limit to the size of the heater.

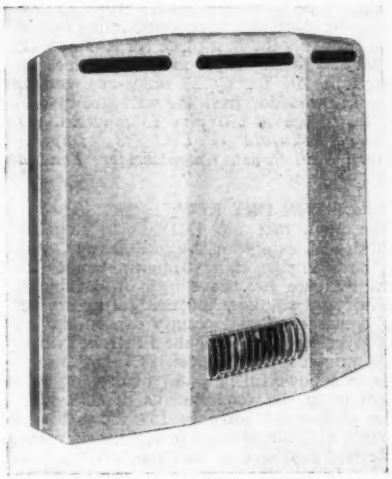
The new Cowper Penfold balanced flue heater was orginally developed by the South Metropolitan Gas Co., and burns 10 cubic feet an hour. It is thus about the same size as many of the free-standing flueless heaters which have been marketed here for many years. These heaters have been very popular, as their installation cost is so low, but, in defiance of the official approval by health authorities, many people find the combustion products oppressive and conducive to headaches. The section on this page, however, which shows how the heater is installed, demonstrates quite clearly that no combustion products can pass into the room, the heating of the room being by convected air warmed by its passage past the heated surfaces within the appliance.

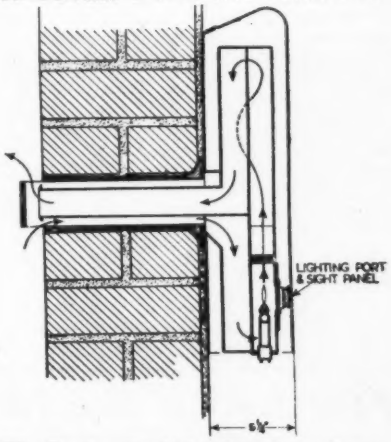
The heater consists essentially of a sheet aluminium box, divided into six compartments, including an air lead-in, a combustion chamber, three circulatory chambers and a products exit. An outer casing completely covers the heater body. There is an open space between the base of the outer casing and the heater body, for the admission of cold air, and three wide slots at the top front for the discharge of heated air into the room.

The burner consists of a steel tube, fitted with four Bray jets, and provided with a patent tap for half, three quarters and full gas rate; a permanent pilot jet is added for convenience of lighting up.

The lighting aperture near the base of the heater body is covered with a screwed cap, and observation windows are provided at the sides. A slot near the bottom of the outer casing gives access to these items, and is covered with a grille to prevent accidental contact with the only exposed part of the heater body.

At the back of the heater, and communicating with the vertical products exit flue, is a horizontal, telescopic, products flue of a minimum length of just over nine inches. This flue is made of stainless steel, as it is the only part of the heater which is liable to corrosion. It passes through the centre of a wall terminal constructed of asbestos cement, which is of a cross-sectional area equivalent to the size of a standard brick, and which it replaces when the heater is installed.





The Cowper Penfold balanced flue heater, top, and bottom, a section of the heater showing the external air duct.

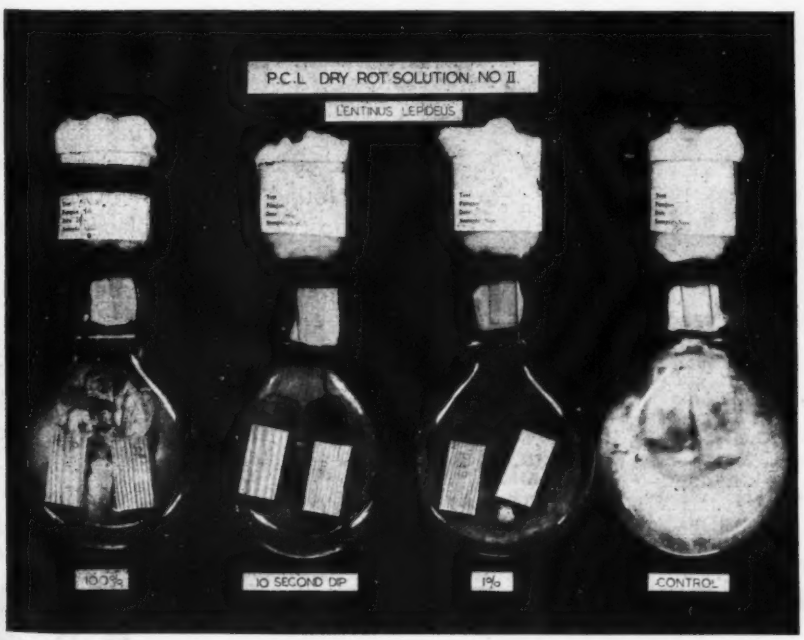
Air for combustion passes through the opening between the wall terminal and the horizontal products flue to the centre back lower compartment of the heater body, entering at the top rear and proceeding downwards to an opening at the bottom front, which communicates with the combustion chamber, housing the burner and pilot jet.

The products of combustion are diverted by the flattened V-shaped deflector plate, which forms the top of the combustion chamber, to the side chambers, and then return to the centre, front, upper compartment. At the top back of this is an aperture communicating with the vertical products flue. The products pass down this flue to the horizontal flue and thence to the open air.

Air from the room passes through the gap between the heater body and the outer casing, is heated by contact with the heater body, and is discharged into the room through the slots at the front top of the outer casing.

The design of the heater is such that high winds cannot affect the combustion or extinguish the burner flames. Their only effect is to reduce slightly the efficiency of the unit, which is nearly 80 per cent. in still air, and 75 per cent. with winds of a velocity of 10 miles per hour. Higher efficiencies, by attaching fins to the heater body, have not been attempted as they would be accompanied by condensation of water vapour in the combustion products.

In existing jobs, installation is quite simple, one brick on the external wall face being removed to take the terminal. Fixing of the



Tests carried out at Princes Risborough on P.C.L. No. 2 dry rot preservative. The flask on the right holds the untreated specimens. The fungus used for the test is more resistant than merulius lacrymans. All the flasks have been in an incubator for three months.

heater to the wall is by four bolts, and the supply pipe is only ¼ inch. About a foot from the floor is a normal mounting height, and probably the best place for it is beneath a window, quite simple to arrange, since the height is 20½ in. by 22 in. wide, with an overall projection from the wall face of only 5¼ in. Price is £10 plus £5 purchase tax. (*Cowper Penfold & Co. Ltd., Imperial Court, Basil Street, Knightsbridge, London, S.W.*3.)

CURES FOR DRY ROT

The news that the DSIR is to stage an anti-dry-rot exhibition in the Building Centre at the beginning of next month reminds me that Pestcure Ltd. have been marketing an anti-dry-rot solution and eradicating dry rot by contract. Tests recently carried out by the mycology section of the FPRL at Princes Risborough show that their PCL No. 2 solution is a powerful inhibitor of dry rot, conforming to the requirements of BSS 1282. The photograph on page 159 shows blocks treated with the solution in various strengths. The test fungus used was *lentinus lepideus*, which is mainly responsible for the decay of sleepers and telegraph poles that have been improperly creosoted. Other test fungi were also employed, all more resistant to antiseptics than the dry-rot fungus, which would certainly be checked at lower concentrations. The report concludes that pressure treatment with concentrations of 5 per cent. of the original solution should provide immunity from attack, as also would dipping in full strength preservative for 10 seconds. (*Pestcure Ltd., 6, Kingly Street, Regent Street, London, W.*1.)

Announcements

The Copper Cylinder and Boiler Manufacturers' Association has reduced maximum selling prices by approximately 3 per cent. with effect from July 18, 1949. This follows previous reductions on May 19 and June 20, and reflects further adjustments in the prices of copper and zinc.

The section of the Import Licensing Department dealing with applications for licences to import machinery has been transferred from offices at 99 and 189, Regent Street, London, W.1, to 91, Victoria Street, S.W.1 (tel.: Abbey 7898). All applications and enquiries concerning import licences for machinery should, therefore, in future be addressed to: The Controller, Import Licensing Department, Board of Trade, Machinery Section, 91, Victoria Street, London, S.W.1.

Mr. L. R. Chambers has been appointed as secretary to the National Council of Building Material Producers in succession to Mr. M. G. Ionides.

Mr. G. J. Elliott, of 479, Honeypot Lane, Stanmore, Middlesex, a RIBA student, would be glad to receive trade catalogues, information sheets and technical literature.

Buildings Illustrated

Nylon Spinning Factory at Pontypool, South Wales (pages 144-150). Designed by Sir Percy Thomas & Son. General contractors, Sir Robert McAlpine & Sons Ltd. Consultant constructional engineers, Scott & Wilson. Clearance and excavation, Willment Bros. Ltd.; steelwork, Redpath Brown & Co. Ltd.; piling, Sir Robert McAlpine & Sons Ltd.; air conditioning, Sturtevant Engineering Co. Ltd.; heating and hot water, G. N. Haden & Sons Ltd., J. G. Proger & Sons Ltd.; glascrete, J. A. King & Co. Ltd.; windows and partitioning, Crittall Manufacturing Co. Ltd.; flooring, Johnson Flooring Co. Ltd., Granwood Flooring Co.; terrazzo, Marble Mosaic Co. Ltd.; sanitary fittings, Associated Clay Industries Ltd.; locks and furniture, James Gibbons Ltd.; facing bricks, Stonehouse Brick & Tile Co. Ltd.; artificial stone, Gloucester Stone Co. Ltd.; lamp standards, General Electric Co. Ltd.; lifts, Waygood-Otis Ltd., Express Lift Co. Ltd.; gates and lettering, Charles Henshaw & Sons; wrought iron staircase handrail, W. A. Baker & Co. Ltd.; kitchen equipment, Benham & Sons Ltd.; lockers, Sankey-Sheldon Ltd., James Gibbons Ltd.; asphalte and waterproofing, Wm. Briggs & Sons Ltd.; roofing, D. Anderson & Son Ltd.; glass panel, The London Sand Blast Decorative Glassworks Ltd.

Factory at Liverpool. (Pages 153-155.) Architect, Harry W. Weedon, F.R.I.B.A., & Partners. General Contractors, Wm. Moss & Sons Ltd. Consulting Engineer, D. W. James-Carrington, M.I.STRUC.E., A.M.INST.C.E. Quantity Surveyors, L. C. Wakeman & Partners. Sub-contractors: Structural steelwork, Banister, Walton & Co. Ltd.; heating, ventilating and hot water installation, The Brightside Foundry & Engineering Co. Ltd.; handrails and balustrades, aluminium panels, Bromsgrove Guild Ltd.; electrical installation, H. J. Cash & Co. Ltd.; lightning conductor, W. J. Furze & Co. Ltd.; steel windows and lantern lights, patent glazing to factory roof, laylight in entrance hall, W. G. Kaleyards Ltd.; gas supply, Liverpool Gas Co.; roller shutters, Mather & Platt Ltd.; ironmongery, Mountford Bros. Ltd.; terrazzo paving in hall, etc., and wall tiling, precast terazzo w.c. divisions, J. & H. Patteson Ltd.; sanitary fittings, Rowe Bros. & Co. Ltd.; precast concrete floors, precast stone dressings and copings, granolithic floors, Siegwart Fireproof Floor Co. Ltd.; patent glazing, Williams & Williams Ltd.



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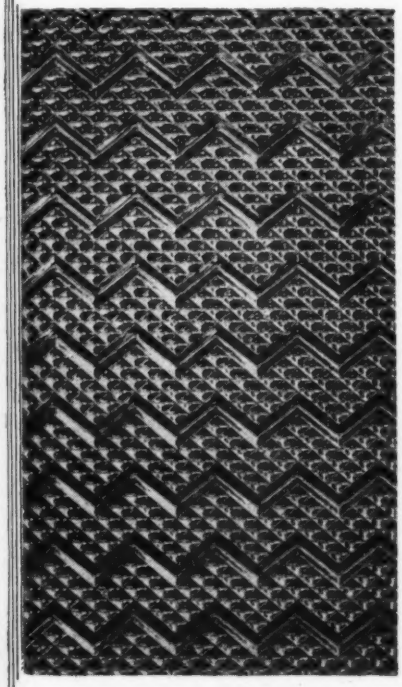
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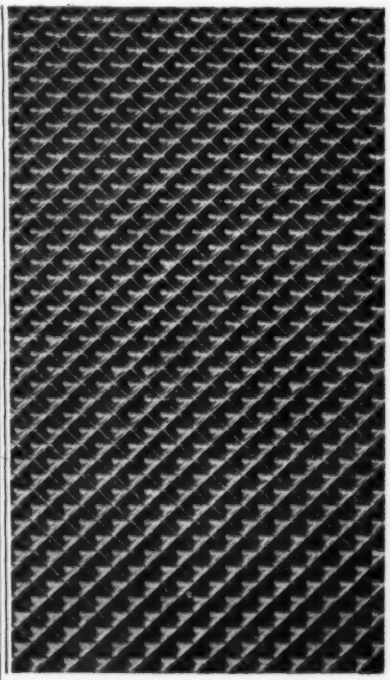
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3 NEW PATTERNS

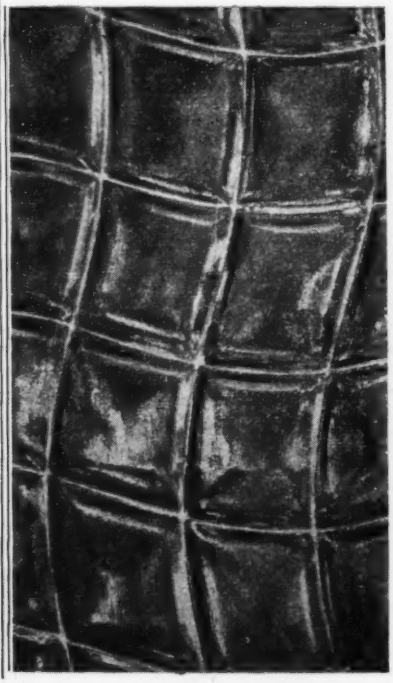
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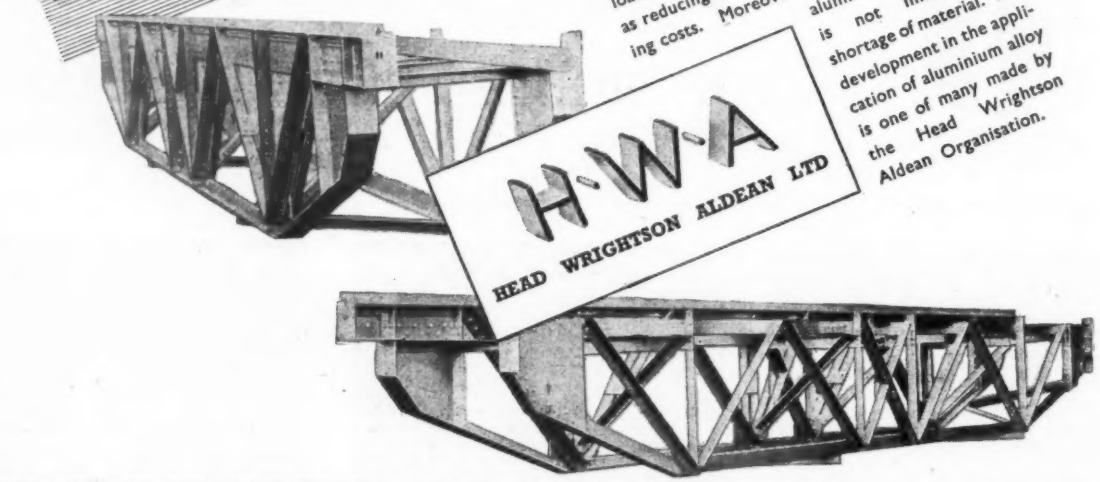
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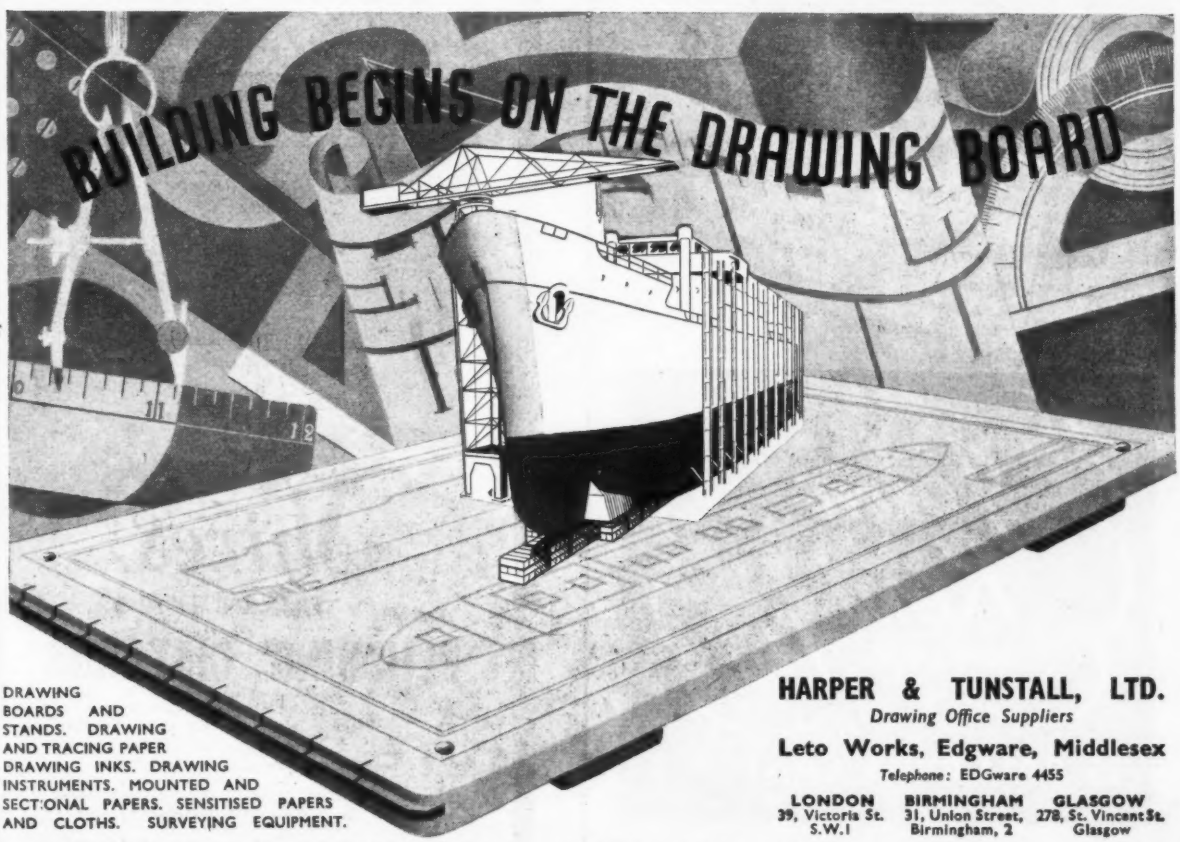
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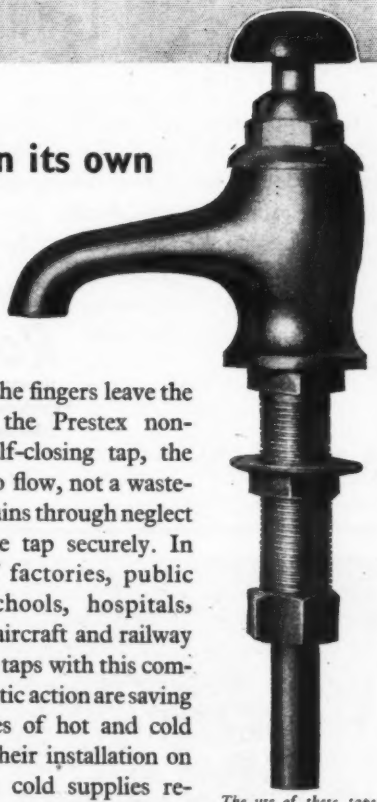
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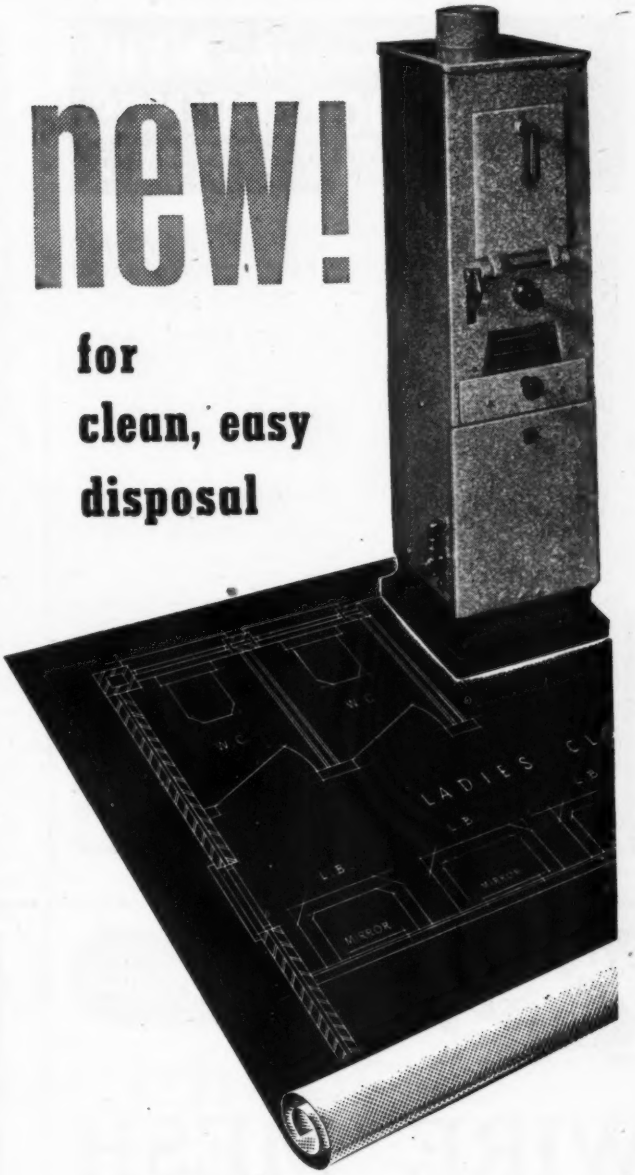
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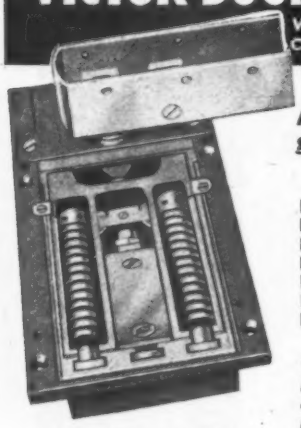


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WITH THE SELF-CONTAINED CHECK



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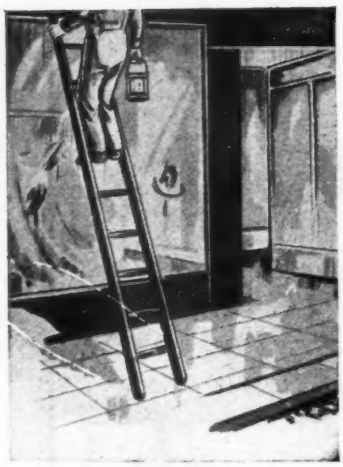
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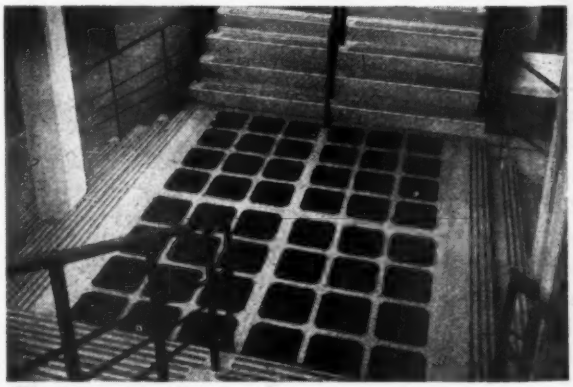
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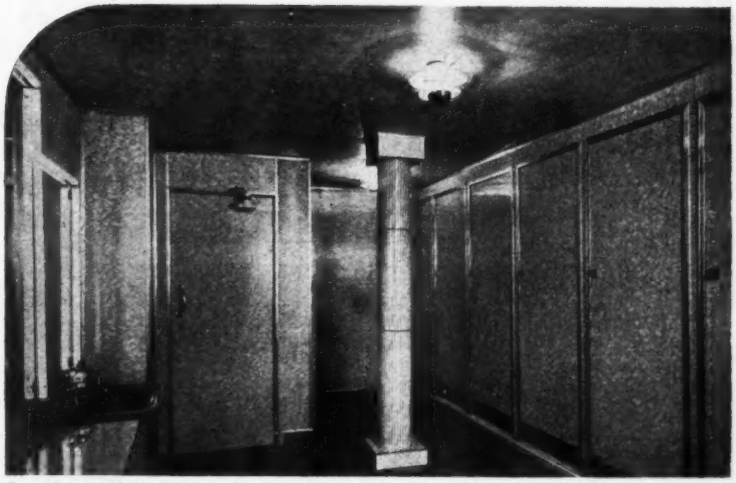
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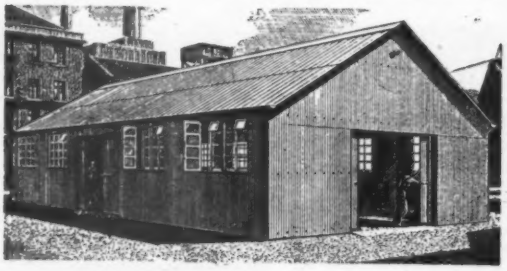
Works: Sunbury-on-Thames, Middx.

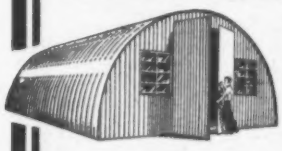
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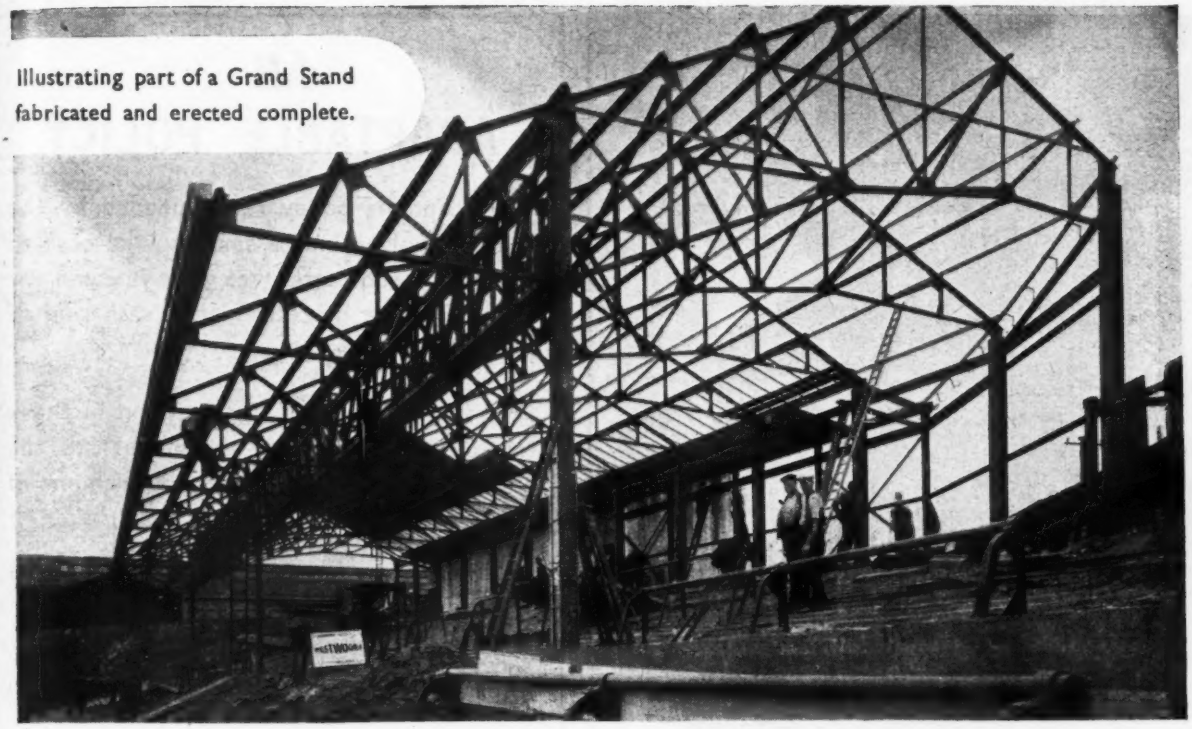


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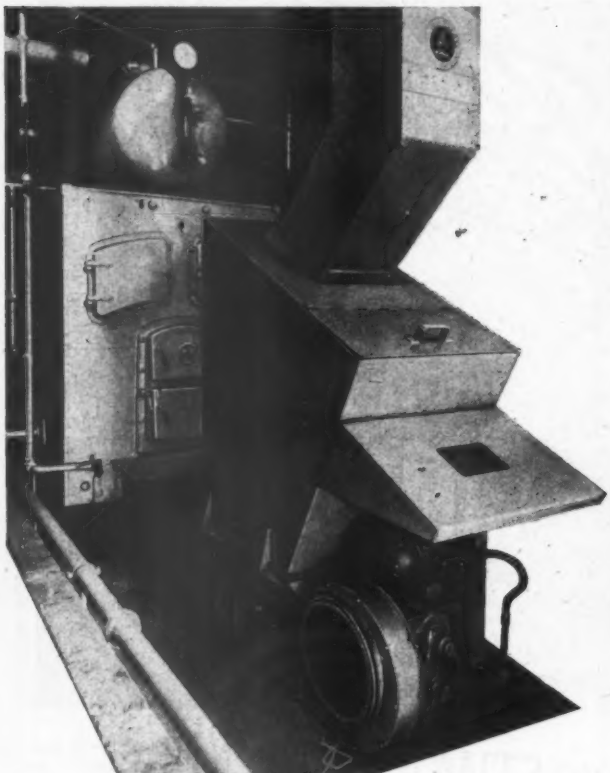
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This book gives a comprehensive account of the architectural and building problems which face educationalists today. The Butler Education Act of 1944 has been revolutionary in its new approach to education and its scope and implications are not yet fully appreciated in many responsible quarters. *The Modern School* surveys the whole field beginning with the historical background and ending with a chapter on modern constructional design ; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail, so that questions of siting, classroom accommodation, specialist rooms (e.g. laboratories and music rooms), school kitchens, gymnasia and playing fields are each covered in turn. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects.

The book contains 152 pages including about 120 photographs and plans. Its size is 9¼ in. by 7¼ in., and it is bound in cloth.

Twenty-one shillings, postage ninepence.

THE ARCHITECTURAL PRESS
9-13 Queen Anne's Gate, S.W.1.

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13 Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHITELEAFE. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

COUNTY OF ESSEX.
ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for a SECTIONAL ASSISTANT ARCHITECT in the Office of the Borough Engineer of Ilford.

Applicants should be Members of the Royal Institute of British Architects and have had considerable experience in the planning, designing, construction and supervision of School buildings and have had administrative experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade VII, £635×£25 to £710, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 1603

BOROUGH OF ACTON.
ARCHITECTURAL ASSISTANT.

Applications are invited for a temporary appointment, at a salary in accordance with A.P.T., Grade V, of the National Scales (£520-£570 p.a.), plus London "weighting."

Candidates must have passed the Intermediate examination of the R.I.B.A. or have a similar qualification.

Application forms may be obtained from the Borough Engineer, Town Hall, Acton, W.3, and must be returned to him endorsed "Architectural Assistant," by the 15th August, 1949.

Canvassing will disqualify.

H. C. LOCKYER,
Town Clerk.

Town Hall, Acton, W.3. 1701

METROPOLITAN BOROUGH OF HACKNEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF TOWN PLANNING ASSISTANT.

Applications are invited for this permanent appointment, at a salary in accordance with Grades A.P.T., IV-V (£480 p.a.-£570 p.a., plus London weighting allowance). The commencing salary may be fixed at a point above the minimum of the Grade specified, according to the qualifications and experience of the successful candidate.

Applicants should state fully the extent of their training, and should have passed a recognized examination in Town Planning or provide evidence of intention to do so. Particulars of Town Planning experience should be given, and reference made to any previous experience or qualifications in Civil Engineering or Architecture.

Conditions of appointment and application forms may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope. Completed application forms, endorsed "Town Planning Assistant," must be returned not later than first post on the 31st August, 1949. The Council is unable to provide any housing accommodation.

DUDLEY SORRELL,
Town Clerk.

Town Hall, Hackney, E.8.
15th July, 1949. 1744

BOROUGH OF BARKING.
DEPARTMENT OF THE BOROUGH ARCHITECT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, at a salary on the General Division or A.P.T., I, scale, according to experience:

i.e., General Division, £220 per annum at age 21, rising to £385 per annum at age 32.

A.P.T., I, £390, rising to £435 per annum.

The appropriate London weighting will be paid in addition to the above salaries.

Terms and conditions of the appointment and form of application may be obtained from the Borough Architect, Town Hall, Barking, and must be received by the undersigned not later than Monday, 22nd August, 1949.

E. R. FARR,
Town Clerk.

Town Hall, Barking. 1700

BOROUGH OF NEATH.

Appointment of:—

(*a*) CHIEF ENGINEERING ASSISTANT.

(*b*) CHIEF HOUSING AND ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointments, with salary in accordance with Grade V of the A.P.T. Division of the National Scheme of Conditions of Service.

Successful applicants will be considered for housing accommodation, if required.

The appointments are on the permanent establishment, are subject to one month's notice on either side and the Local Government Officers' Superannuation Act, 1937, and the successful applicants will be required to pass medical examinations.

Applications, stating age, qualifications and experience, and accompanied by not more than three testimonials, should be posted so as to reach me by not later than 31st August, 1949.

ALFRED E. I. CURTIS.
Town Clerk.

Town Clerk's Office, Neath.
July, 1949. 1734

COUNTY BOROUGH OF DONCASTER
EDUCATION COMMITTEE.
EDUCATION ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of CLERK OF WORKS in the above Department.

The appointment is on a fixed wage of £10 per week and is in connection with the construction of School Kitchens and Dining Halls. The duration of the contracts is expected to be two years, after which the Clerk of Works may be retained in connection with further educational projects.

Applicants must have a thorough knowledge of all sections of the building trade, and must state their age, qualifications, present appointment, and previous experience.

The above appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, endorsed "Clerk of Works," and accompanied by copies of not more than three recent testimonials, must be delivered to the undersigned not later than noon Saturday, 27th August, 1949.

V. H. HOSKIN,
Chief Education Officer.

Education Office, Whitaker Street, Doncaster. 1733

COUNTY BOROUGH OF DERBY.
BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF TWO TEMPORARY CLERKS OF WORKS.

Applications are invited for the appointment of two temporary Clerks of Works, at an inclusive salary of £9 per week.

Applicants should be fully experienced in Municipal works and have a sound knowledge of all building trades.

The appointment will be subject to one month's notice in writing on either side, and the successful candidate will be required to pass a medical examination.

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than 22nd August, 1949.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS,
Town Clerk.

1732

ESSEX EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

Required immediately SENIOR ASSISTANT IN ARCHITECTURE, to assist in the supervision of Courses for the Examinations of the Royal Institute of British Architects.

Salary £700×£25 to £800 per annum, plus London allowance and the usual allowances for recognized full-time training and degree qualifications.

Applications (no forms), stating full particulars of training, qualifications and experience, should be submitted to the Clerk of the Governors at the College within two weeks of the appearance of this advertisement.

D. N. BUNGEY,
Acting Chief Education Officer.

County Offices, Chelmsford. 1779

CORPORATION OF LONDON.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in the Architecture and Housing Section of the City Engineer's Office:—

(*a*) SENIOR ARCHITECTURAL ASSISTANT (Auxiliary Staff), Grade III. Salary scale £600 to £750, by annual increments of £25.

(*b*) FIRST-CLASS ASSISTANT (Permanent Staff). Salary scale £550 to £700, by annual increments of £25.

(*c*) FIRST-CLASS ASSISTANT (Permanent Staff). Salary scale £400 to £625, by annual increments of £25.

Commencing salary within the scales will be related to qualifications and experience.

For appointments (*a*) and (*b*) applicants should have had good experience and be competent to undertake the preparation of working drawings and details of multi-storey flats. Preference will be given to Associates of the Royal Institute of British Architects.

For appointment (*c*) applications will be considered from Graduate Architects or equivalent.

The appointments will be subject to the standing Orders of the Corporation, and the selected candidates will be required to pass a medical examination and contribute to the Corporation's Superannuation Scheme.

Forms of application and conditions of service can be obtained from the City Engineer, Corporation of London, 55/61, Moorgate, E.C.2.

Last date for receipt of completed forms of application the 22nd August, 1949. 1705

CITY OF COVENTRY.
CITY ARCHITECTURAL DEPARTMENT.
APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited from suitably qualified persons for the appointment of Deputy City Architect, at a commencing salary of £1,005 per annum, rising by annual increments of £85, £100 and £10 to a maximum of £1,200 per annum. Applicants must have had extensive experience of the work undertaken in a City Architectural Department, and previous local government experience will be an advantage.

At present the City Architect is one of two Joint Planning Officers for the City. In October, 1949, he will be the sole Planning Officer, and it is thought that a Deputy Planning Officer will be appointed to assist in this work.

The appointment will be terminable by three months' notice on either side, and will be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, etc., Services, as amended in favour of officers by decisions of the City Council.

The successful applicant will be required to pass a medical examination and to contribute on the statutory basis to the Superannuation Fund under the Local Government Superannuation Acts (as amended in regard to Annuities to Widows by the Coventry Corporation Act, 1936), and will be required to contribute to the Staff Widows' and Orphans' Pensions Fund.

Applications, stating age and particulars of experience and accompanied by not more than three recent testimonials, must reach the undersigned not later than Saturday, the 3rd September, 1949. Canvassing, directly or indirectly, will be considered a disqualification, and applicants should disclose any relationship within their knowledge to a member or senior officer of the Council.

CHARLES BARRATT,
Town Clerk.

Council House, Coventry.
29th July, 1949. 1707

CITY OF PLYMOUTH.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, which are subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and a month's notice on either side for termination:

(*a*) CHIEF QUANTITY SURVEYOR. A.P.T., Grade IX (£750 to £900).

(*b*) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VI (£595 to £660).

(*c*) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade I (£390 to £435).

(*d*) ASSISTANT ARCHITECT. A.P.T., Grade V (£520 to £570).

Applicants for (*a*) and (*b*) should be Members of the Royal Institution of Chartered Surveyors (Quantities Section), and for (*d*) must be Registered Architects and Members of the R.I.B.A.

Applicants for (*c*) must be capable of squaring and abstracting dimensions, and will be expected to give general assistance in the preparation of Bills of Quantities and settlement of accounts. Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications, on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be received at my office not later than Monday, 22nd August, 1949.

HOUSING ACCOMMODATION MAY BE MADE AVAILABLE TO THE SUCCESSFUL MARRIED APPLICANTS IF THEY REQUIRE IT.

E. G. CATCHPOLE, A.R.I.B.A.,
City Architect.

Seymour Road, Plymouth. 1699

COUNTY BOROUGH OF DERBY.
PLANNING STAFF APPOINTMENTS (THREE).

Applications are invited for the under-mentioned permanent appointments in the Planning Department of the Borough Engineer and Surveyor:—

(a) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in Architecture or A.R.I.B.A., and be Associate Members of the Town Planning Institute.

(b) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in Architecture, Civil Engineering, or be A.R.I.B.A., A.M.Mun.E., A.M.I.C.E., and Associate Members of the Town Planning Institute.

(c) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in Economics or Estate Management or be A.R.I.C.S., and Associate Members of the Town Planning Institute.

Preference will be given to candidates who have had experience in the detailed planning of new development and re-development in Urban areas, who possess initiative and are capable of taking responsibility for sections of the work of the department.

Conditions of Service are those formulated by the National Joint Council, and the appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications, appropriately endorsed, together with copies of two recent testimonials, or two names of persons from whom references may be obtained, should be sent to M. L. Francis, F.R.I.C.S., M.I.Mun.E., M.Inst.R.A., Borough Engineer and Surveyor, The Council House, Derby, to reach him not later than Monday, 5th September, 1949.

Canvassing, directly or indirectly, will be a disqualification, and candidates are required to state whether they are related to any member or senior official of the Council.

E. H. NICHOLS,
Town Clerk.

The Council House, Derby.
July, 1949. 1758

LONDON COUNTY COUNCIL.
QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifies. (2140) 752

ANGLESEY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following permanent appointments in the County Architect's Department:—

(a) ONE ASSISTANT ARCHITECT. Salary, Grade V, commencing at £520 per annum and rising to £570 per annum. Preference will be given to Associate Members of the R.I.B.A., with good general experience in design and construction.

(b) TWO ASSISTANT ARCHITECTS. Salary, Grade IV, commencing at £480 per annum and rising to £525 per annum. Applicants should have had good experience in the preparation of working drawings, and preference will be given to applicants who have passed the Intermediate examination of R.I.B.A.

(c) ONE ARCHITECTURAL ASSISTANT. Salary, Grade III, commencing at £450 per annum and rising to £495 per annum. Applicants should have had good architectural training and be good draughtsmen.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be subject to one month's notice on either side. Candidates called for interview will be required to undergo a medical examination by the County Medical Officer.

Applications, stating age, training, experience, qualification, past and present appointments, names of two referees, and accompanied by a copy of one recent testimonial, are to be sent so as to reach the undersigned not later than Wednesday, the 31st August, 1949.

WILLIAM JONES,
Clerk of the County Council.

Shire Hall, Llangefni.
27th July, 1949. 1727

CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointments of TWO SENIOR ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade VI of the National Scale of Salaries.

Applicants must be registered Architects, with previous experience of the design of large modern schools, housing and general municipal work, and must be competent to undertake the preparation of working and detail drawings with the minimum of supervision.

Preference will be given to Associates of the Royal Institute of British Architects.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned in a sealed envelope endorsed "Senior Architectural Assistant," not later than 25th August, 1949.

Candidates should state whether they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will disqualify.

Housing accommodation is not immediately available, but the Council will, if necessary, assist so far as they are able, the successful applicant to obtain accommodation, but it must be clearly understood that the Council do not guarantee to find either a house or living accommodation.

ARTHUR J. REEVES,
Town Clerk.

Town Hall, Peterborough.
25th July, 1949. 1755

METROPOLITAN BOROUGH OF FULHAM.
HOUSING AND PUBLIC BUILDINGS DEPARTMENT.

Applications are invited for the appointment on the temporary staff of the Director of Housing and Public Buildings of a CLERK OF WORKS for the Hurlingham Housing Scheme, at a salary in A.P.T., Grades VII/VIII, of the National Scales (£665×£25—£790 per annum). The commencing salary will be fixed according to the experience of the successful applicant.

The Scheme comprises 400 flats in 18 blocks and ancillary buildings, together with estate roads and drainage.

Applicants must have had experience on large building contracts, including road and drainage works.

Applications, on forms obtainable from me, should be returned not later than 20th August, 1949.

CYRIL F. THATCHER,
Town Clerk.

Town Hall, Fulham, S.W.6. 1781

BATTERSEA BOROUGH COUNCIL.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant in the Borough Engineer and Surveyor's Department. The commencing salary will be £685 per annum, in Grade VIII of the National Joint Council's Scheme, rising to the maximum of the Grade, and by two further annual increments of £25 to an ultimate maximum of £810 per annum, plus London weighting.

Candidates must be Associate Members of the Royal Institute of British Architects, and have had extensive experience in architectural design and construction. In addition administrative experience with a local authority would be an advantage.

The appointment will be determinable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination. The conditions of service are those of the National Scheme for Local Government Officers.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.11, and should be returned, together with copies of three recent testimonials, and endorsed "Chief Architectural Assistant," to reach the undersigned not later than noon on Friday, 26th August, 1949.

R. G. BERRY,
Town Clerk.

Town Hall, Battersea, S.W.11. 1780

ST. AUSTELL URBAN DISTRICT COUNCIL.
APPOINTMENT OF TECHNICAL ASSISTANT.

Applications are invited for the appointment of a Technical Assistant, in the department of the Engineer and Surveyor, at a salary in accordance with Grade III of the A.P. and T. Division of the National Scale of Salaries. A travelling allowance on the National Scale will also be payable.

Applications, accompanied by the names of two persons to whom reference can be made, must be received by the undersigned not later than the first post on Friday morning, the 26th August, 1949.

The successful candidate will be required mainly for work in connection with the Council's housing programme, and preference will be given to applicants holding a recognized qualification in Engineering, Architecture or Quantity Surveying.

L. E. SAUNDERS,
Clerk to the Council.

Municipal Offices, St. Austell, Cornwall.
27th July, 1949. 1731

CITY OF PORTSMOUTH.

Applications are invited for the following appointments in the City Architect's Department:—

(a) ONE SENIOR ARCHITECT. Grade VIII (£685-£760).

(b) ONE ASSISTANT SENIOR ARCHITECT. Grade VII (£635-£710).

(c) TWO PRINCIPAL ASSISTANT ARCHITECTS. Grade VI (£595-£660).

(d) ONE ASSISTANT ARCHITECT. Grade IV (£480-£525).

(e) ONE ASSISTANT ARCHITECT. Misc. Div., I (£315-£360).

Applicants for (a) should be capable of a high standard of design and experienced in major building projects, excluding Housing; (b) similar standard for Health services work; (a), (b) and (c) should be Associates R.I.B.A.; for (d) should have passed the Intermediate examination of the R.I.B.A., and for (e) should be preparing for the Intermediate examination. In each case applicants must have had adequate office experience.

A special subsistence allowance may be paid to a married applicant for a period of six months after taking up the appointment if he is unable to secure accommodation immediately.

Applications, setting out in tabular form name, age, qualifications, present post and salary, previous posts with dates, details of experience, with names of three referees, must be delivered to the undersigned not later than 10 a.m. on Monday, 29th August, 1949.

Canvassing will disqualify.

V. BLANCHARD,
Town Clerk.

City Council Chambers,
1, Clarence Parade, Portsmouth. 1779

COUNTY BOROUGH OF SWANSEA.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the Established Staff appointments as hereunder:—

(1) ASSISTANT BOROUGH ARCHITECT. £800 p.a.

(2) ASSISTANT QUANTITY SURVEYOR. Grade VII, £635-£710 p.a.

(3) TWO JUNIOR ASSISTANT QUANTITY SURVEYORS. Grade III, £450-£495 p.a.

(4) MAINTENANCE SURVEYOR. Grade V, £520-£570 p.a.

(5) ARCHITECTURAL ASSISTANT. Grade III, £450-£495 p.a.

Candidates for the post of Assistant Borough Architect must be Associates of the Royal Institute of British Architects, widely experienced in design and modern constructional methods.

For Quantity Surveying posts, Grade VII, and Maintenance Surveyor, Grade V, Associateship of the Royal Institution of Chartered Surveyors (in the appropriate division) must be held, and for Junior Assistant Quantity Surveyor and Architectural Assistant posts the Intermediate examination of the Royal Institution of Chartered Surveyors or Royal Institute of British Architects must have been passed.

Candidates must be under 45 years of age, unless in Local Government Service. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

The appointments may be terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., Guildhall, Swansea, and are to be returned, accompanied by three recent testimonials, to the undersigned, not later than noon on 29th August, 1949.

Canvassing, directly or indirectly, will disqualify.

(Signed) T. B. BOWEN,
Town Clerk.

Guildhall, Swansea.
August, 1949. 1764

COUNTY BOROUGH OF DONCASTER.
ESTATES AND HOUSING DEPARTMENT.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant, in the Estates and Housing Department of the Council, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Scale of Salaries, i.e., £520 per annum, rising by annual increments of £15, £15 and £20, to £570 per annum.

Applicants should be Associates of the Royal Institute of British Architects, and have experience in housing, design and layout.

The appointment, which will be an established one, will be subject to one month's notice in writing on either side, and to the terms of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Housing accommodation will be made available if required.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be forwarded to the undersigned not later than Monday, the 29th August, 1949.

Canvassing, directly or indirectly, will be a disqualification.

H. S. ESSENHIGH,
Town Clerk.

1, Priory Place, Doncaster.
3rd August, 1949. 1786

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments :—

HEADQUARTERS' OFFICE, PRESTON :

(a) SECTIONAL PLANNING OFFICER (Development) (A.P.T., Grade VIII).

The commencing salary will be within the range of £685×£25—£760 per annum, according to qualifications and experience.

Candidates for this appointment should possess one or more of the following or equivalent qualifications : a University Degree or Diploma in Architecture, Engineering or Surveying, A.M.T.P.I., A.M.I.C.E., A.R.I.C.S., A.M.I.Mun.E., A.R.I.B.A.

Applicants should have had considerable experience in the preparation of Development Plans under the Town and Country Planning Act, 1947, and the administration of development control. The successful candidate would be expected to supervise the work of staff on lower grades.

(b) SECTIONAL PLANNING OFFICERS (Architecture) (A.P.T., Grade VIII).

The commencing salary will be within the range of £685×£25—£760 per annum, according to qualifications and experience.

Applicants should possess a University Degree in Architecture and/or be Corporate Members of the Royal Institute of British Architects. An additional qualification in Town and Country Planning would be an advantage.

Experience is essential in the planning of residential, industrial and central areas, and the successful candidates would be expected to supervise the work of staff on lower grades.

(c) SENIOR PLANNING ASSISTANTS (Architecture) (A.P.T., Grade VI).

The commencing salary will be within the range of £595-£660 per annum, according to qualifications and experience.

Candidates for these appointments should possess a University Degree in Architecture and/or be Corporate Members of the Royal Institute of British Architects. Previous planning experience is not essential, but preference will be given to applicants who also possess a qualification in Town and Country Planning and have had experience in the preparation of detailed plans for residential, industrial and central areas.

(d) PLANNING ASSISTANTS (Research).

The commencing salary will be fixed according to experience and qualifications, the maximum not exceeding £525 per annum.

Candidates should be University Honours graduates in Economics, Agricultural Economics or Sociology.

The duties attached to the appointment will include the preparation of comprehensive rural, agricultural, industrial and economic surveys, and candidates should possess a genuine interest in the problems of the countryside and/or a sound knowledge of the problems of industrial location.

BLACKPOOL DIVISIONAL PLANNING OFFICE :

(e) SECTIONAL PLANNING OFFICER (A.P.T., Grade VIII).

The commencing salary will be within the range of £685×£25—£750 per annum, according to qualifications and experience.

Applicants for this appointment should possess one or more of the following or equivalent qualifications : a University Degree or Diploma in Architecture, Engineering, or Surveying, A.M.T.P.I., A.M.I.C.E., A.R.I.C.S., A.M.I.Mun.E., A.R.I.B.A.

The successful candidate will be in charge of the Divisional Planning Office to be established in the vicinity of Kirkham, and will be responsible, under the direction of the Divisional Planning Officer, for the planning work of that part of the Administrative County surrounding the County Boroughs of Blackpool and Preston.

Experience in the preparation of Town and Country Planning Schemes and the administration of the relevant Acts and Orders is essential.

LANCASTER, BLACKPOOL, PRESTON, KIRKHAM, WIGAN AND BURY DIVISIONAL PLANNING OFFICES :

(f) SENIOR PLANNING ASSISTANTS (A.P.T., Grade VI).

The commencing salary will be within the range of £595-£660 per annum, according to qualifications and experience.

Candidates for these appointments must possess one or more of the following or equivalent qualifications : a University Degree or Diploma in Architecture, Engineering, or Surveying, A.M.T.P.I., A.M.I.C.E., A.R.I.C.S., A.M.I.Mun.E., A.R.I.B.A.

Previous planning experience is not essential, but preference will be given to persons who have had a good general experience in the preparation of Town and Country Planning Schemes and the administration of the relevant Acts and Orders.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council and to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be forwarded to the County Planning Officer, County Offices, Preston, not later than Saturday, 20th August, 1949.

Applicants should state clearly for which appointments they wish to be considered.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston. 1736

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent establishment :—

CHIEF ARCHITECTS AND CHIEF QUANTITY SURVEYORS. £760-£910 and £685-£760.

SENIOR ARCHITECTS AND SENIOR QUANTITY SURVEYORS. £635-£710 and £595-£660.

ASSISTANT ARCHITECTS AND ASSISTANT QUANTITY SURVEYORS. £550-£610, £520-£570, £480-£525, £450-£495.

JUNIOR ARCHITECTS AND JUNIOR QUANTITY SURVEYORS. £420-£465, £390-£435.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the West Riding County Council (General Powers) Act, 1948, and to a medical examination.

Applications, on forms obtainable at this office, must be submitted by 1st September, 1949.

HUBERT BENNETT, F.R.I.B.A.,
County Architect.

County Hall, Wakefield. 1686

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the permanent staff :—

(a) TWO ASSISTANT ARCHITECTS. A.P.T., Grade VI (£595 to £660).

((b) ONE ASSISTANT ARCHITECT. A.P.T., Grade IV (£480 to £525).

Candidates for (a) must be Associate Members of the Royal Institute of British Architects.

The appointments will be superannuable and subject to medical examination.

Forms of application are not being issued, but further information may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than the 22nd August, 1949.

Canvassing will disqualify, and a candidate who is related to a member of, or a senior officer under the Council, must disclose the fact when applying.

H. G. THORNLEY,
Clerk of the County Council.

County Hall, Northallerton.
29th July, 1949. 1777

CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for following permanent staff appointments :—

SENIOR ASSISTANT ARCHITECTS :
(a) Grade VII, £635-£710 (General Section).
(b) Grade V, £520-£570 (Housing Section).

ASSISTANT ARCHITECTS :
(c) Grade II, £420-£465 (Education Section).

Applicants for appointments (a) and (b) should be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have good general experience in design and construction; experience in Local Authority office work will be an advantage. Appointments are subject to provisions of Local Government Superannuation Acts, 1937 and 1939, and successful applicants required to pass medical examination. All appointments terminable by one month's notice in writing on either side.

Housing accommodation provided, if necessary, at an economic rent.

Applications, indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary, and the names of two referees, must be delivered to the undersigned by Monday, 15th August.

J. NELSON MEREDITH, F.R.I.B.A.,
City Architect.

Eagle House, Colston Avenue, Bristol, 1. 1739

CITY OF STOKE-ON-TRENT.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff :—

(a) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VI, £595-£660.

(b) ASSISTANT QUANTITY SURVEYORS. Salary A.P.T. Division, Grade VI, £595-£660.

(c) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade V, £520-£570.

(d) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade III, £450-£495.

(e) ARCHITECTURAL ASSISTANTS. Salary A.P.T. Division, Grade I, £390-£435.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the usual conditions applicable to Local Government Service.

Previous experience of Local Government work is not essential.

Housing accommodation will be made available for married applicants in respect of posts (a) and (b).

Applications, giving date of birth, particulars of training and experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, City Architect's Department, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Wednesday, 24th August, 1949.

HARRY TAYLOR, *Town Clerk.*

Town Hall, Stoke-on-Trent.
30th July, 1949. 1740

METROPOLITAN BOROUGH OF WOOLWICH.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department :—

(a) ARCHITECTURAL ASSISTANT, Grade V. Salary £520 per annum, rising to £570 per annum, plus London weighting.

(b) ARCHITECTURAL ASSISTANT, Grade II. Salary £420 per annum, rising to £465 per annum, plus London weighting.

The appointments will be subject to the Council's Conditions of Service in force from time to time, to the provisions of the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side. The selected candidates will be required to pass a medical examination.

Applicants for :—

(a) must have passed the Final Examination of the R.I.B.A., or have an equivalent qualification, and preferably have had experience in Architectural work, especially housing, undertaken by a local authority;

(b) should have had a good general training and experience, and preference will be given to those who have passed the Intermediate Examination of the R.I.B.A.

Applications, giving full details of age, qualifications and experience, should be forwarded, together with the names of three referees, to reach the undersigned by the 2nd September, 1949.

Candidates must disclose in writing if they are related to any member or senior officer of the Council. Canvassing members of the Council, either directly or indirectly, will disqualify.

DAVID JENKINS,
Town Clerk.

Town Hall, Woolwich, S.E.18.
4th August, 1949. 1812

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments :—

(a) FOUR SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).

(b) THREE SENIOR ASSISTANT ARCHITECTS. Salary £520 per annum, rising to £570 per annum (A.P.T., Grade V).

Applicants should be Associates of the Royal Institute of British Architects, and must have had experience on Housing, General Architectural work, and/or Educational buildings.

The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Favourable consideration will be given to the provision of housing accommodation, if required.

Applications, stating age, particulars of training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials, and the names and addresses of two persons to whom reference may be made, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON,
Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.
3rd August, 1949. 1811

LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff :—

(a) SENIOR ASSISTANT ARCHITECTS, Grade VIII. Salary £685-£760.

(b) SENIOR ASSISTANT ARCHITECTS, Grade VII. Salary £635-£710.

(c) ASSISTANT ARCHITECTS, Grade VI. Salary £595-£660.

(d) ASSISTANT ARCHITECTS, Grade V. Salary £520-£570.

Applicants for the above posts should have passed, or attained the equivalent standard of, the R.I.B.A. Final Examination.

(e) JUNIOR ARCHITECTURAL ASSISTANTS, Grade III. Salary £450-£495.

Applicants for the above post should have passed, or attained the equivalent standard of, the R.I.B.A. Intermediate Examination.

(f) JUNIOR ARCHITECTURAL ASSISTANTS, Grade I. Salary £390-£435.

Promotion to higher grades in the case of (e) and (f) is accelerated on passing each stage of the examination of a recognized Professional Institute, and for assistants who show the required ability, as vacancies occur.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 10th September, 1949.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston.
29th July, 1949. 1807

BOROUGH OF NEWCASTLE-UNDER-LYME.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
CHIEF ARCHITECT.

Applications are invited for the appointment of Chief Architect, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VII, of the National Scales, viz., £635×£25 to £710.

Housing accommodation will be provided if necessary. Car allowance in accordance with National Scale.

Candidates should be Members of the Royal Institute of British Architects and must have had sound experience in architectural design, particularly as applied to schools and public buildings generally.

The appointment will be subject to two months' notice on either side, the National Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination.

Further particulars regarding the duties of the appointments, together with a form of application, may be obtained from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs.

Applications on the prescribed form and endorsed "Chief Architect" should be sent to the Borough Engineer and Surveyor not later than 22nd August, 1949.

Canvassing, directly or indirectly, will disqualify the candidate.

C. J. MORTON,
Town Clerk.

11th August, 1949. 1774

THE NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

The Governors invite applications for the post of ASSISTANT ADVISORY OFFICER in the Farm Buildings Department (Office at Craibstone). This Department advises on all matters pertaining to farm buildings, carries out the investigation of problems, and studies new developments and techniques. While preference will be given to candidates who have passed the qualifying examination for A.R.I.B.A. or its equivalent, due consideration will be given to those who have had a sound practical training and experience in this field.

Salary scale: £470 to £760 per annum.

The post will be superannuable.

Forms of application, which may be obtained from the undersigned, must be lodged by 24th August, 1949.

JOHN L. INNES,
Secretary.

41½, Union Street, Aberdeen. 1809

ESSEX EDUCATION COMMITTEE.
SOUTH-EAST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART.
APPOINTMENT OF PRINCIPAL.

Applications are invited from suitably qualified candidates for the post of Principal of the South-East Essex Technical College and School of Art.

The College and School of Art serves the populous extra-metropolitan area of South Essex and industrial areas bordering Thameside. It has a considerable development of full-time and part-time day work and a large amount of evening work of an advanced nature, and is organized in the following departments:—

Engineering and Building.
Chemistry and Biology.
Physics and Mathematics.
Arts.
Commerce.
Domestic Science.

The salary scale is £1,250 per annum, by annual increments of £50 to a maximum of £1,550 per annum, plus London training and graduate allowances.

Further particulars and a form of application, which should be returned not later than 17th September, 1949, may be obtained from the undersigned on receipt of a stamped addressed envelope.

D. N. BUNGEY,
Acting Chief Education Officer.

County Offices, Chelmsford, Essex. 1792

COUNTY BOROUGH OF BURY.

Applications are invited for the following appointments:—

(*a*) SENIOR ARCHITECTURAL ASSISTANT. A.P.T., V (£520-£570).
(*b*) ARCHITECTURAL ASSISTANT. A.P.T., IV (£480-£525).
(*c*) ARCHITECTURAL ASSISTANT. A.P.T., III (£450-£495).
(*d*) ARCHITECTURAL ASSISTANT. A.P.T., II (£420-£465).
(*e*) ARCHITECTURAL ASSISTANT. A.P.T., I (£390-£435).
(*f*) QUANTITY SURVEYOR. A.P.T., III (£450-£495).

Applicants for the positions of Architectural Assistants should possess a knowledge of Building Quantities.

The appointments are subject to the Local Government Superannuation Act, 1937, and medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two referees, must be forwarded to me not later than Saturday, 20th August, 1949.

EDWARD S. SMITH.
Town Clerk.

Municipal Offices, Bank Street, Bury.
3rd August, 1949. 1800

NATIONAL HEALTH SERVICE ACT, 1946.

The South-East Metropolitan Regional Hospital Board invite applications for the following appointments in the Regional Architect's office:—

(1) ASSISTANT QUANTITY SURVEYOR. Appointment will be made according to experience within the A.P.T. salary scales (IV-VI), ranging from £480 to £660 a year. Applicants should hold the Final examination (Quantities Sub-section) of one of the recognized professional institutes, and be experienced in preparation of Bills of Quantities, specifications, final accounts and estimating, etc.

(2) ARCHITECTURAL ASSISTANT. Appointment will be made according to experience within the A.P.T. salary scales (II-III), ranging from £420 to £495 a year. Applicants should have had experience in Architect's office, capable of scale drawings and details, surveys, and routine drawing office duties, etc.

All salaries are increased by the appropriate London weighting allowance of £20 and £30 a year, according to age, and the posts are superannuable under the National Health Service (Superannuation) Regulations, 1947.

Applications, which should state age of applicant, present salary, and a brief statement of qualifications and experience, together with copies of two recent testimonials, should be addressed to the Secretary of the Board, 11, Portland Place, W.1, not later than 31st August, 1949. 1803

CITY OF NOTTINGHAM.
CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following positions:—

(*a*) PLANNING ASSISTANT. Grade A.P.T., VI (£595×£20×£20×£25—£660).
(*b*) PLANNING ASSISTANT. Grade A.P.T., IV (£480×£15—£525).

Applicants for these positions must have had good experience in the Town Planning Office of a Local Authority.

The appointments are subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications are to be on forms to be obtained from Mr. R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than Saturday, 27th August, 1949.

J. E. RICHARDS,
Town Clerk.

Guildhall, Nottingham. 1806

IRLAM URBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Engineer and Surveyor's Department. Salary Grade IV-V, A.P.T. Division, National Joint Council Scale (£480 to £570). The commencing salary will be within the range of Grade IV, according to qualifications and experience. The appointments will be subject to:—

(*a*) One month's notice in writing.
(*b*) Local Government Superannuation Act, 1937.
(*c*) Passing a medical examination.

Preference will be given to candidates holding recognized qualifications.

Housing accommodation will be provided if necessary.

Applications, stating age, qualifications and experience, and accompanied by copy of one recent testimonial and the names of two referees, should be endorsed "Architectural Assistant," and be received by the undersigned not later than 10 a.m. on Monday, 22nd August, 1949.

EDWIN JONES,
Clerk of the Council.

Council Offices, Irlam, near Manchester.
4th August, 1949. 1802

WORCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(*a*) TWO ASSISTANT ARCHITECTS. A.P.T., Grade VIII, £685-£760.
TWO ASSISTANT ARCHITECTS. A.P.T., Grade V, £520-£570.
ONE ASSISTANT ARCHITECT. A.P.T., Grade III, £450-£495.
(*b*) ONE QUANTITY SURVEYOR. A.P.T., Grade VIII.
(*c*) THREE BUILDING INSPECTORS. A.P.T., Grade III or IV, according to experience.
(*d*) SHORTHAND-TYPISTS. General or Clerical Grade, according to qualifications and experience.

Applicants for appointments (*a*), except the appointment on Grade III, must be registered architects, and preference will be given to members of the R.I.B.A. For appointment (*b*) preference will be given to members of the R.I.C.S.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the Scheme of Conditions of the National Joint Council. They will be terminable by one month's notice on either side, and the successful candidates will be required to submit certificates of medical fitness.

Applications, giving full particulars of qualifications, experience, age, etc., and stating which appointment is applied for, together with copies of three recent testimonials, should be sent to L. C. Lomas, F.R.I.B.A., County Architect, 60, The Tything, Worcester, not later than 31st August, 1949.

W. R. SCURFIELD,
Clerk to the County Council.

Shirehall, Worcester.
B119. 1801

CIVIL SERVICE.

QUANTITY SURVEYORS and ASSISTANT QUANTITY SURVEYORS are required throughout the United Kingdom by the Ministry of Works, Admiralty, War Department, Air Ministry and War Damage Commission, and occasionally overseas by the Admiralty, Air Ministry and War Department. Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Salaries for these professional posts in London for officers over 26 years of age range from £500 per annum, they are slightly lower in the provinces. Salary on entry will be in accordance with age, qualifications and experience.

Vacancies also exist for QUANTITY SURVEYING ASSISTANTS and others having some experience in a quantity surveyor's office, at salaries ranging from £300 p.a. upwards.

Applicants should write, quoting ref. J.Q.8., to Room 377, Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, W.C.2. 1737

DIOCESE OF GUILDFORD.

THE GUILDFORD DIOCESAN DILAPIDATIONS BOARD REQUIRES the services of a SURVEYOR to carry out the duties prescribed under the Ecclesiastical Dilapidations Measures. Applicants should be members of the Church of England and resident in the Diocese of Guildford. Duties to commence on 1st January, 1950. Salary £350 per annum.

Applications should be sent to The Secretary, Guildford Diocesan Dilapidations Board, Diocesan House, Quarry Street, Guildford, Surrey, to reach him not later than 15th September, 1949. 1746

THE NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

The Governors invite applications for the post of ARCHITECTURAL DRAUGHTSMAN-ASSISTANT for the Farm Buildings Advisory Service (Headquarters at Craibstone).

Salary scale: £200 at age 18 to £445, with entry according to age and qualifications.

Letters of application, in triplicate, giving particulars of age, qualifications and experience, and three copies of not more than three recent testimonials, should be lodged with the undersigned not later than 24th August, 1949.

JOHN L. INNES,
Secretary.

41½, Union Street, Aberdeen. 1810

BIRMINGHAM REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments in the Architect's Department:—

(*a*) SENIOR ASSISTANT ARCHITECT.

Salary scale A.P.T., VIII, £685-£760. Applicants must have passed the Final Examination of the Royal Institute of British Architects or possess a recognized Diploma of Architecture, and should have considerable experience of the design of buildings and building procedure. The candidate appointed should be capable of controlling drawing office staff.

(*b*) ASSISTANT ARCHITECTS.

Salary scale A.P.T., Va, £550-£610. Applicants must have passed the Final Examination of the Royal Institute of British Architects, or possess a recognized Diploma in Architecture, and should have considerable experience of Local Authority building projects and procedure. Experience of hospital planning and construction will be an advantage, and a sound knowledge of specifications is essential.

(*c*) ARCHITECTURAL ASSISTANTS.

Salary scale A.P.T., IV (£480 to £525). Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects, and have experience of surveying buildings, preparing sketch designs, details, and working drawings.

(*d*) ASSISTANT QUANTITY SURVEYOR.

Salary scale A.P.T., VA (£550-£610). Applicants should have passed the Final Examination of the Royal Institute of Chartered Surveyors and should be fully experienced in the taking off and preparation of Bills of Quantities.

(*e*) JUNIOR ENGINEERING ASSISTANT.

Salary scale A.P.T., I or II, £390 to £465, according to experience and qualifications. Applicants should have experience in the preparation of plans, design and calculations for Heating, Hot Water Supply and Steam Installations. Preference will be given to candidates who have passed or are preparing for the A.M.I.H.V.E. examination or its equivalent.

The Architect's Department is an expanding branch of the Board, and is responsible for the supervision of a large Capital Building programme, including New Hospital Buildings, Nurses Homes, Staff Houses, and alterations to existing buildings.

Candidates for (*a*) and (*b*) should be keen designers, with a flair for modern design, including new methods of construction and interior decoration.

The appointments are subject to the National Health Service (Superannuation) Regulations, 1947 and 1948, and are terminable by one month's notice by either side. Applications, stating age, qualifications, experience, and present appointment, together with the names of two referees, should be submitted to the Secretary, Birmingham Regional Hospital Board, 10, Augustus Road, Edgbaston, Birmingham, 15, not later than 31st August, 1949.

Applications should state clearly the appointment for which the candidate is applying. 1749

LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff :—

SENIOR SECTION ARCHITECT (Education Branch). Grade X. Salary £860×£25—£960.

Applicants should be capable of a nigh standard of design, and have had experience of the control of staffs.

The successful applicant will be responsible for the supervision of four Section Architects and their staffs.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 10th September, 1949.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston.
29th July, 1949. 1808

COUNTY BOROUGH OF BIRKENHEAD.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments on the staff of the Borough Surveyor :—

(*a*) ARCHITECTURAL ASSISTANTS (TWO). Grade A.5. £520-£570.

(*b*) ARCHITECTURAL ASSISTANT (ONE). Grade A.4. £480-£525.

(*c*) ARCHITECTURAL ASSISTANT (ONE). Grade M.1. £315-£360.

Applicants for (*a*) should be preferably members of R.I.B.A. and Registered Architects, and have a sound knowledge of Architectural design and construction, and be capable of preparing complete set of drawings and details, etc. One appointment is required for School Buildings, and one appointment for Housing and General works.

Applicants for (*b*) should be preferably a member of R.I.B.A. and Registered Architect, and be capable of preparing working drawings and details, etc.

Applicants for (*c*) to be good draughtsmen, and capable of preparing drawings from rough sketches.

The posts are subject to the Local Government Superannuation Act, 1937, and the persons appointed will be required to contribute the appropriate percentage of their salaries to the Corporation's Superannuation Scheme.

The appointments are subject to one month's notice on either side, and the successful candidates will be required to pass a medical examination.

Applications must be submitted in accordance with the instructions to be obtained from the Borough Surveyor, Town Hall, Birkenhead. Completed applications must be submitted in a plain envelope endorsed "Architectural Assistant," (*a*), (*b*) or (*c*) as the case may be, and delivered to me not later than the date specified on the form to be supplied.

DONALD P. HEATH,
Town Clerk.

Town Hall, Birkenhead.
August, 1949. 1791

COUNTY BOROUGH OF DARLINGTON.
BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF CHIEF TOWN PLANNING ASSISTANT.

Applications are invited for the appointment of a Chief Town Planning Assistant, at a salary in accordance with Grade A.P.T., VIII, of the National Scale of Salaries (£685, rising to £760 per annum).

Candidates must have had previous planning experience, and preference will be given to those holding the Diploma of the Town Planning Joint Examination Board or its equivalent.

A flat will be made available to the successful candidate if it is required.

Applications, endorsed "Chief Town Planning Assistant," and giving the names and addresses of three referees, should be delivered to the Town Clerk, 11, Houndgate, Darlington, not later than Friday, 9th September, 1949.

Canvassing, directly or indirectly, will disqualify.

H. HOPKINS,
Town Clerk.

1770

COUNTY BOROUGH OF WALLASEY.
BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited by the 24th August for the following appointments :—

(*a*) ARCHITECTURAL ASSISTANT Grade A.P.T., VI. £595-£660.

(*b*) ARCHITECTURAL ASSISTANT. Grade A.P.T., V. £520-£570.

(*c*) ARCHITECTURAL ASSISTANT. Grade A.P.T., IV. £480-£525.

(*d*) TEMPORARY ARCHITECTURAL ASSISTANTS (ungraded), at a salary up to £550 per annum, according to qualifications and experience.

Forms of application and conditions of appointment may be obtained from the Borough Architect, Town Hall, Wallasey.

EMRYS EVANS,
Town Clerk.

1790

CORPORATION OF LONDON.
APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANTS.

Applications are invited for the appointment of Architectural and Surveying Assistants in the City Surveyor's office. The salary will be within the range Higher Grade I, £400×£25—£625 and Higher Grade II, £550×£25—£700. The commencing salary will be arranged according to qualifications and experience.

Applicants should be between the ages of 25 and 35 years, and should be Associate Members of the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors (Building Sub-division). Applicants without these qualifications but up to Intermediate Examination standard will be considered for the positions in Higher Grade I.

The appointments call for good draughtsmanship, a sound knowledge of building construction, specification writing, contract management, and general administrative ability. The appointments are on a probationary basis, and candidates will be considered for transfer to the permanent staff as and when vacancies occur (one vacancy at present exists).

The appointments will be subject to the provisions of the Corporation's Superannuation Scheme, and candidates will be required to pass a medical examination.

Applications, giving full personal details, particulars of qualification, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be forwarded to George Holliday, F.R.I.C.S., City Surveyor, Corporation of London, 55-61, Moorgate, E.C.2. 1785

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architect's Section of the Chief Engineer's Department in Central London.

(*a*) ASSISTANT ARCHITECTS. Commencing salary will be from £650 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications, and should have had good general experience in design and construction.

(*b*) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum, dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen, and have had several years' experience in an Architect's office.

(*c*) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen, and preferably have had several years' experience in an architect's office.

The salaries for the above posts are provisional, and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme, and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within 14 days of the publication of this notice. 1769

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons (under 45 years of age) for the following appointments :—

(1) CHIEF QUANTITY SURVEYOR. Salary £1,000 per annum.

Applicants should be Corporate Members of the R.I.C.S. and should have considerable experience (preferably in Scotland) in Estimating, preparing Bills of Quantities, and settling Final Accounts of large contracts.

(2) ARCHITECT (PUBLIC BUILDINGS). Salary £540×£25 and £20—£760 per annum.

Applicants should be Corporate Members of the R.I.B.A. and an additional Town Planning qualification will be an advantage. They should have had experience of the design and construction of all types of public buildings appropriate to New Town development.

(3) (*a*) JUNIOR ASSISTANT, (*b*) JUNIOR ASSISTANT ENGINEER. Salary £380×£20 and £10—£490 per annum.

Applicants for 3 (*a*) and (*b*) should have passed at least the Intermediate examination of the appropriate professional body.

The posts will be superannuable under the Local Government (Scotland) Act, 1937, and successful candidates will be required to pass a medical examination.

Particulars of the assistance which the Corporation will give in securing housing accommodation will be given at the time of interview.

Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the undersigned not later than 27th August, 1949.

J. N. ROGER,
Secretary, Glenrothes Development Corporation.

Auchmuty House, Markinch.
2nd August, 1949. 1795

LIVERPOOL REGIONAL HOSPITAL BOARD.

Applications are invited for the following permanent appointments in the Regional Architect's Department of the Headquarters Staff of the Board :—

(*a*) SENIOR ASSISTANT ARCHITECT. Grade A.P.T., VIII, £685×£25—£760 per annum.

Applicants must be Associates of the Royal Institute of British Architects, and preferably have had experience in the design and construction of hospitals, and must be capable of carrying out and advising on large building contracts.

(*b*) ASSISTANT ARCHITECT. Grade A.P.T., VI, £595-£660 per annum.

Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience and ability in design and construction.

(*c*) CLERK OF WORKS. Grade A.P.T., V, £520-£570 per annum.

Applicants should have served an apprenticeship in a recognized building trade, and have a sound knowledge of building construction, and must be capable of supervising and reporting on works of maintenance, alteration and new construction.

(*d*) DRAUGHTSMAN. Grade I, Miscellaneous Division, £315×£15—£360 per annum.

Applicants must be competent Draughtsmen, with a knowledge of building construction, and must have had previous experience in an Architect's office.

The appointments are pensionable, and the successful candidates will be required to pass a medical examination.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, war service, together with the names and addresses of three referees, should be sent to the undersigned at Alexandra Building, 19, James Street, Liverpool, 2, to be received not later than 22nd August, 1949.

VINCENT COLLINGE,
Secretary to the Board.

1765

MONMOUTHSHIRE COUNTY COUNCIL.

Applications are invited for the following posts in the office of the County Architect :—

THREE PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade VII (*i.e.*, £635 per annum, rising by annual increments of £25 to £710 per annum), of the Administrative, Professional and Technical Division of the National Joint Council's Scale.

TWO PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade VI (*i.e.*, £595 per annum, rising by two annual increments of £20 and one of £25 to £660 per annum), of the Administrative, Professional and Technical Division of the National Joint Council's Scale.

Consideration will be given to the payment of a temporary lodging allowance to selected candidates, who are maintaining a home elsewhere, pending their obtaining suitable accommodation.

Forms of application, particulars of the post and conditions of service, may be obtained from the undersigned. Completed applications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than 20th August, 1949. Canvassing in any form will be a disqualification.

VERNON LAWRENCE,
Clerk of the Council.

County Hall, Newport, Mon. 1768

The Civil Service Commissioners give notice of a Reconstruction Competition for permanent appointments as DRAUGHTSMEN, (*a*) Architectural and Civil Engineering, (*b*) Mechanical and Electrical Engineering, (*c*) Cartographical, in various Government Departments.

Candidates for posts (*a*) and (*b*) must have been born on or after 2nd August, 1905, and on or before 1st August, 1928, and must have obtained the Ordinary National Certificate or an equivalent qualification. In addition, candidates must have completed a minimum period of three years' practical experience, including one year in a Drawing Office.

Candidates for posts (*c*) must have been born on or after 2nd August, 1910, and on or before 1st August, 1933, and must have completed a minimum period of two years' Drawing Office experience, provided that candidates who for good reason (*e.g.*, Service in the Forces, age) have been unable to acquire such experience, must satisfy the Commissioners of their aptitude for cartographical work.

Inclusive London salary scales for posts (*a*) and (*b*) :—£300×£20—£525 (men), £300×£15—£450 (women). Starting salary £300 for men and women at age 21, increased by £20 (men), £15 (women), for each year age exceeds 21, subject to the maximum of the scale. For posts (*c*) : inclusive London salary scales £150-£450 (men), £150-£360 (women). Starting salary for men and women £150 (age 16), £170 (age 17), £195 (age 18), £210 (age 19), for older candidates £210, increased by £15 (men), £10 (women), for each year by which age exceeds 19 up to age 34. Rates for all posts rather less outside London.

Opportunities for promotion to higher grades. Superannuation provision is made under the Superannuation Acts.

Further particulars and application forms from the Secretary, Civil Service Commission, 27, Grosvenor Square, London, W.1, quoting No. 2738. Completed application forms must be returned by 26th October, 1949 1815

URBAN DISTRICT COUNCIL OF BILLERICAY.
ARCHITECTURAL ASSISTANT.
Qualifications: Intermediate R.I.B.A. or A.R.I.B.A.
Salary: A.P.T., Division III, £450×£15 to £495, or A.P.T. Division, IV, £480×£15 to £555, according to qualifications.
Applications, on forms to be obtained from the Surveyor, Council Offices, Billericay, should be forwarded to the undersigned not later than Saturday, 27th August, 1949.
A. HATT,
Clerk of the Council.
Council Offices, Billericay, Essex.
3rd August, 1949. 1805

THE EAST RIDING OF YORKSHIRE COUNTY COUNCIL.
Applications are invited for the following appointments on the permanent staff of the County Architect's Department:—
(*a*) TWO SENIOR ASSISTANT ARCHITECTS. Salary A.P.T., Grade VII, £635-£710 per annum.
Applicants must be fully qualified Architects and have had experience in the design, construction and execution of modern buildings. The Authority's building programme includes Schools, Houses, Police Stations, Fire Stations, Homes for Aged People and Children's Homes.
(*b*) ASSISTANT BUILDING SURVEYOR. Salary A.P.T., Grade V, £520-£570 per annum.
Candidates should possess appropriate qualifications and experience of all branches of building.
They should be capable of preparing specifications, schedules, reports and estimates, for maintenance and minor capital works, the surveying of sites and existing structures in connection with improvements and adaptations, etc., and measurement and progressing of work in all trades.
The successful candidate in the case of (*b*) will be required to provide a motor car, in respect of which a mileage allowance will be paid in accordance with the Council's scale.
The appointments, which are terminable by one month's notice on either side, are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.
Applications stating age, training, qualifications and experience, with particulars of past and present employment, with salaries, and accompanied by copies of three recent testimonials, must be received by the County Architect, County Hall, Beverley, not later than Thursday, the 18th August, 1949. Applicants should disclose relationship to any member or senior officer of the Council, and canvassing will be a disqualification.
T. STEPHENSON,
Clerk of the Council.
County Hall, Beverley.
July, 1949. 1773

METROPOLITAN BOROUGH OF HAMMERSMITH.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS (THREE).
Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANTS in the Borough Engineer and Surveyor's Department.
Salary Grade A.P.T., II/III, of National Scales of Salaries (£420×£15—£495 p.a., plus London weighting).
Applicants must be competent draughtsmen, have a good knowledge of building construction, and possess architectural experience in housing and general building work.
The appointments are subject to the Council's Grading and Superannuation Schemes and to medical examination.
Applications—on forms to be obtained from the undersigned on receipt of a stamped-addressed foolscap envelope—to be returned by 22nd August, 1949.
Canvassing will disqualify.
HORACE SLIM, *Town Clerk.*
Town Hall, Hammersmith, W.6. 1772

CITY OF WESTMINSTER.
HOUSING DEPARTMENT.
CHIEF ARCHITECTURAL ASSISTANT (Permanent Appointment). A.P.T., Grade VIII, of the National Scales. Salary £635×£25—£760 per annum, plus London "weighting" of £30 per annum.
Applicants to be Registered Architects (or otherwise entitled to describe themselves as Architects), not over 50 years, with good architectural experience, including housing, and to have wide general experience in administration.
The appointment is subject to a satisfactory medical report and to the provisions of the Council's Standing Orders, General Regulations and Superannuation Scheme, and to the Scheme of Conditions of Service. Canvassing will disqualify.
Applications, marked "Housing Department—Chief Architectural Assistant," stating full names, address, age, war service, examination qualifications, present and past appointments, experience, whether related to any member or chief officer of the Council, with copies of three recent testimonials, must be received by 9 a.m. on Thursday, 18th August, 1949.
PARKER MORRIS,
Town Clerk.
Westminster City Hall, Charing Cross Road, London, W.C.2.
August, 1949. 1771

The CRAWLEY DEVELOPMENT CORPORATION requires:—
(*a*) An ARCHITECT with Landscape qualifications, with a salary range of £750-£1,000 per annum. For exceptional qualifications and experience advancement to higher salary range might be considered. Applicants should have first-class experience of landscape architecture as well as design. They should be qualified architects and Members or Associate Members of the Institute of Landscape Architects.
(*b*) A STUDENT ARCHITECT (for general Architectural duties); minimum age 21. Should be a student member of R.I.B.A. to Intermediate examination standard. Salary scale £300 to £400 per annum.
Further particulars with information required for applications are to be obtained from the Chief Architect, A. G. Sheppard Fidler, M.A., B.Arch., A.R.I.B.A., A.M.T.P.I., to whom applications must be submitted not later than 19th August, 1949.
C. A. C. TURNER,
Chief Executive.
29th July, 1949. 1763

BOROUGH OF WREXHAM.
ENGINEER AND SURVEYOR'S DEPARTMENT HOUSING SECTION.
APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the appointment of Quantity Surveyor, in the Engineer and Surveyor's Department, mainly for duties relating to the Corporation's Housing Schemes.
The salary is £685 by £25 to £800 per annum, commencing salary according to qualifications and experience.
Particulars and conditions of appointment (which include the provision of housing accommodation and payment of removal expenses if appropriate), with forms of application, may be obtained from the Borough Surveyor, 31, Chester Street, Wrexham.
Applications, accompanied by copies of two recent testimonials, to be forwarded to me in envelopes endorsed "Quantity Surveyor," so as to be received not later than Monday, 22nd August, 1949.
PHILIP J. WALTERS,
Town Clerk.
Guildhall, Wrexham.
28th July, 1949. 1749

STAFFORDSHIRE COUNTY COUNCIL EDUCATION COMMITTEE.
Applications are invited for the following appointments on the permanent establishment of the Architect's Department:—
(*a*) SECTION ARCHITECTS. Grade VII, A.P.T. Division (£635×£25—£710 per annum).
(*b*) ASSISTANT ARCHITECTS. Grade VI, A.P.T. Division (£595×£20 (2) × £25—£660 per annum).
(*c*) SENIOR ASSISTANTS. Grade V, A.P.T. Division (£520×£15 (2) ×£20—£570 per annum).
(*d*) JUNIOR ASSISTANTS. Grades I to IV, A.P.T. Division (£390-£525), according to qualifications and experience.
Applicants for post (*a*) are required to be Associate Members of the R.I.B.A., and capable of a high standard of design. Preference will be given to those candidates who have had experience in the control of staff.
Applicants for post (b) are required to be Associate Members of the R.I.B.A. Preference will be given to candidates having a sound knowledge and experience in the construction and design of all types of school buildings.
The appointments will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and successful candidates will be required to undergo a medical examination. The appointments will also be subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities' Administrative, Technical and Clerical Services.
Applications, endorsed according to the particular post in respect of which consideration is desired, should be addressed to the Director of Education (A), County Education Offices, Earl Street, Stafford, stating age, qualifications and previous experience, and should be accompanied by copies of three recent testimonials.
All applications are required to be received not later than the 20th August, 1949.
T. H. EVANS,
Clerk of the County Council.
1759

AMENDED ADVERTISEMENT.
COUNTY BOROUGH OF NEWPORT.
BOROUGH PLANNING DEPARTMENT.
Applications are invited for the appointment of an ARTIST DRAUGHTSMAN, at a salary of £420-£465 per annum (A.P. and T. Division, Grade II).
Applicants should possess a high standard of draughtsmanship and be able to produce perspective and three dimensional drawings to illustrate planning proposals. A knowledge of model making would be an advantage.
The Council will consider providing suitable housing accommodation (if necessary) for the successful applicant.
Details of duties and forms of application to be obtained from me must be delivered not later than 26th August, 1949.
H. F. ALSTON,
Borough Planning Officer.
Corn Exchange Chambers,
Thomas Street, Newport, Mon. 1796

CITY OF COVENTRY.
Applications are invited for the following whole-time appointments on the staff of the City Architectural Department:—
(*a*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum.
(*b*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.
(*c*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum.
Applicants for (*a*), (*b*) and (*c*) should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.
(*d*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.
Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects.
(*e*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.
(*f*) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.
(*g*) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.
(*h*) ONE HEATING AND VENTILATING ENGINEERING ASSISTANT. Salary on Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.
Applicants should preferably be over 25 years of age and be Associate Members of the Institute of Heating and Ventilating Engineers.
(*j*) ONE HEATING AND VENTILATING ENGINEERING ASSISTANT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.
Applicants should preferably be graduate members of the Institute of Heating and Ventilating Engineers.
In certain circumstances, housing accommodation may be made available for the successful applicants in the cases of (*a*), (*b*) and (*h*).
Salary increments are subject to satisfactory service.
The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Referee. The successful male applicants will be required to contribute to the Municipal Officers', Widows' and Orphans' Pension Fund.
Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than 23rd August, 1949.
Canvassing, directly or indirectly, will be a disqualification.
D. E. E. GIBSON,
City Architect.
1A, Warwick Row, Coventry.
11th August, 1949. 1753

ARCHITECTS AND SURVEYORS IN THE DEPARTMENT OF AGRICULTURE FOR SCOTLAND AND ARCHITECTS IN THE DEPARTMENT OF HEALTH FOR SCOTLAND.
The Civil Service Commissioners invite applications for appointment to established posts of ARCHITECT and SURVEYOR. There will be eleven vacancies for Architects and Surveyors in the Department of Agriculture for Scotland and two vacancies for Architects in the Department of Health for Scotland. Candidates must be at least 30 years of age on 1st June, 1949.
Candidates for Department of Health for Scotland posts must be Registered Architects by examination, or Registered Architects who since registration have passed any professional examination in architecture recognized by the Architects' Registration Council of the United Kingdom as qualifying for registration under the Architects' (Registration) Acts. Candidates for Department of Agriculture for Scotland posts must be Registered Architects as above or Corporate Members of the Royal Institution of Chartered Surveyors (Building Section) or Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Section).
For posts in Department of Agriculture for Scotland preference will be given to candidates with an agricultural background and experience in the design and erection of farm buildings, low cost housing, estate maintenance work and rural water supplies, etc.
For posts in Department of Health for Scotland, preference will be given to candidates with experience of local authority housing design and layouts and of public health buildings.
Inclusive salary scale is £735-£980 per annum (men) for posts in Edinburgh and Glasgow, rather less elsewhere in Scotland. Rates for women are somewhat lower. Successful candidates will enter at the minimum of the scale.
Forms of application, with further particulars of the posts, may be obtained from the Secretary, Civil Service Commission, 27, Grosvenor Square, London, W.1, quoting No. 2736; completed application forms must be returned by 15th September, 1949.
3678/100 1760

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments on the permanent establishment :—

(a) ASSISTANT DIVISIONAL PLANNING OFFICER. East Herts. (Hertford) (Grade VIII). Salary £685-£760 p.a. The appointment is a responsible position in the County Planning Organization, and applicants should have had considerable experience in drafting planning proposals and controlling development. Preference will be given to candidates with experience of controlling elevations of buildings. Applicants must be Corporate Members of the Town Planning Institute and hold other professional qualifications.

(b) SENIOR PLANNING ASSISTANT. Design Section, Headquarters (Hertford) (Grade VIII). Salary £685-£760 p.a. Requisites are experience in designing large scale developments in central suburban and rural areas, in control of elevations and in the pictorial presentation of ideas, coupled with an interest in landscape design. Applicants should be Corporate Members R.I.B.A. and T.P.I.

(c) PLANNING ASSISTANTS. (Grade IV). Salary £480-£525 p.a. (Hertford and Watford). Corporate Membership of the T.P.I. is desirable. Previous experience in the preparation of a County Survey and Development Plan and in the control of development, together with skill in draughtsmanship, is essential. Qualifications in architecture, municipal engineering, survey or landscape design will be an advantage.

Travelling and subsistence allowances are payable in accordance with the Council's scales. Forms of application are obtainable from the County Planning Officer, County Hall, Hertford. These are returnable not later than 24th September, 1949. 1752

METROPOLITAN BOROUGH OF HACKNEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
ARCHITECTURAL SECTION.

Applications are invited for the under-mentioned permanent appointments, at salaries in accordance with the scales indicated.

In each case the commencing salary may be fixed at a point above the minimum of the Grade specified, according to the qualifications and experience of the successful candidate.

ASSISTANT ARCHITECT :
One appointment, Grades A.P.T., V(a)-VI (£550 p.a.-£660 p.a., plus London weighting allowance). Candidates must have had a good general experience in design and construction, and hold as appropriate professional qualification. In addition to general architectural work the successful candidate will be required to undertake the oversight of the maintenance of Council's properties, including the preparation of specifications for, and the technical supervision of repairs thereto.

ARCHITECTURAL ASSISTANT :
One appointment, Grades A.P.T., III-IV (£450 p.a.-£525 p.a., plus London weighting allowance). Candidates must have had a good architectural training, and must have passed the R.I.B.A. Intermediate or equivalent examination.

JUNIOR ARCHITECTURAL ASSISTANT :
One appointment, Grades A.P.T., II-III (£420 p.a.-£525 p.a., plus London weighting allowance). Candidates must have had a good architectural training, and preference will be given to those who have passed the R.I.B.A. Intermediate or equivalent examination.

Conditions of appointments and application forms may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope. Completed application forms, endorsed with the designation and Grade of the post applied for, must be returned not later than first post on the 31st August, 1949. The Council is unable to provide any housing accommodation.

DUDLEY SORRELL,
Town Clerk.

Town Hall, Hackney, E.8.
22nd July, 1949. 1745

CITY OF BIRMINGHAM EDUCATION COMMITTEE.
BIRMINGHAM CENTRAL TECHNICAL COLLEGE.
Principal : J. WILSON, B.Sc., B.Com., M.I.Mech.E.
DEPARTMENT OF BUILDING AND CIVIL ENGINEERING.

Applications are invited for the following full-time appointment :—

ASSISTANT LECTURER in Building Construction and Associated subjects. Applicants should possess one of the following qualifications :—(a) A.R.I.B.A., (b) A.M.I.Struct.E., (c) L.I.O.B., (d) A.R.I.C.S., (e) Higher National Certificate in Building.

Salary will be in accordance with the Burnham Technical Scale. Basic scale £300×£15—£555. Additions to the scale may be given for academic or professional qualifications and training, and the commencing salary will depend upon professional or industrial experience.

The person appointed will be required to take up duty as soon as possible.

Conditions of appointment and form of application may be obtained from the Principal, Central Technical College, Suffolk Street, Birmingham, 1, on receipt of stamped addressed foolscap envelope. The last day for receipt of applications is two weeks after the appearance of this advertisement.

E. L. RUSSELL,
Chief Education Officer.
1762

EAST GRINSTEAD URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a TECHNICAL ASSISTANT (Temporary), in the Engineer and Surveyor's Department, at a salary equivalent to Grade I of the A.P.T. Division of the National Scheme (£390-£435). Applicants must possess experience in work connected with housing schemes, including the preparation of surveys, plans, quantities and estimates. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The appointment will also be subject to termination by one month's notice given in writing on either side. Applications, stating age, qualifications, training and experience, accompanied by copies of three recent testimonials, should be received by the undersigned not later than Friday, the 19th August, 1949, and endorsed "Technical Assistant." Applicants must state whether they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will disqualify.

L. R. BENNETT,
Clerk of the Council.
Clerk's Office, East Court, East Grinstead. 1756

LONDON COUNTY COUNCIL.

INSTRUCTORS will be required in Colleges of Commerce, particularly in the South-East area, for the following subjects :—

Law of Highways, Town Planning, Valuation, Chain-surveying and Levelling, Measuration and Trigonometry, Law of Sale and Land. Rate of pay for two-hour period of instruction 22s. (Intermediate) or 35s. (Final) degree standard. Application forms obtainable and returnable to Education Officer (T7), County Hall, S.E.1 (stamped addressed envelope). (940) 1750

COUNTY BOROUGH OF MIDDLESBROUGH EDUCATION COMMITTEE.
ARCHITECTS' DEPARTMENT.

Applications are invited for the following appointments on the permanent establishment :—

(a) ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade VI (salary £595-£660 per annum).

(b) TWO ASSISTANT ARCHITECTS. A.P.T. Division, Grade V (salary £520-£570 per annum).

In respect of appointment (a) certain housing accommodation is being made available and can, if necessary, be provided by the Authority for the successful applicant.

Applicants for appointment (a) must be Associate of the Royal Institute of British Architects, with experience in the design and construction of school buildings, and capable of carrying out large contracts.

Applicants for appointment (b) should preferably be fully qualified architects, with experience in the design and construction of school buildings.

Forms of application (which should be returned not later than 9 a.m. on Thursday, 8th September, 1949), and conditions of service, may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough.

E. C. PARR,
Town Clerk.
1804

BLABY RURAL DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

The Council invites applications for the following appointments :—

(a) ARCHITECTURAL ASSISTANT, at a salary of £480 per annum, rising by annual increments of £15 to £520 per annum, plus travelling allowance on the Council's scale. This appointment will be for a period of four years in the first instance, and applicants must be suitably qualified and experienced in taking off quantities, setting-out, measuring up, dealing with interim statements, and preparation of final accounts for housing work.

(b) GENERAL ASSISTANT, in the building section, at a salary in accordance with A.P.T., Grade I, £390 per annum, rising by annual increments of £15 to £435 per annum. Applicants must have a thorough knowledge of building construction, and be capable of examining plans submitted for approval under Building Byelaws and of dealing with all records relating to building plans, town planning, building licencing, etc.

(c) TRAINEE, in the architectural section, at a salary in accordance with age in the General Division. Applicants should be over 16 years of age with school certificate, and show aptitude for drawing and mathematics. The successful applicant must be prepared to continue his technical education with a view to qualifying by the appropriate professional examination. Salary at the rate of £135 per annum at age 16, increasing according to age.

The appointments, which will be terminable by one month's notice on either side, are subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and to the Conditions of Service of the National Joint Council where applicable.

Applications, stating age, qualifications, and full details of experience, together with copies of two recent testimonials, to be delivered to the undersigned not later than Monday, 22nd August, in a sealed envelope endorsed (a), (b) or (c) as the case may be.

J. J. DERRY,
Clerk of the Council.
Council Offices, Narborough, Leicester.
27th July, 1949. 1754

Partnership and Financial

6 lines or under, 10s.; each additional line, 1s. 6d.

PARTNERSHIP in a Country Practice in Devon offered A.R.I.B.A., with A.R.I.C.S. or A.M.T.P.I. additional qualifications after period as Chief Assistant; state experience, age, and salary required. Box 1758.

Tenders for Contracts

6 lines or under, 10s.; each additional line, 1s. 6d.

PEMBROKESHIRE COUNTY COUNCIL.
GENERAL PURPOSES AND PUBLIC WORKS COMMITTEE.

Contractors are invited to tender for the erection of a proposed NEW OFFICE BLOCK, COUNTY OFFICES, HAVERFORDWEST.

General Conditions of Contract and Bills of Quantities, etc., will be supplied on request to Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, on payment of a deposit of £5 5s., made payable to the "Pembrokeshire County Council," which will be returned on receipt of a *bona-fide* tender, not subsequently withdrawn, and the return of all documents.

The County Council does not bind itself to accept the lowest or any tender.

Sealed tenders must be submitted in the endorsed envelope provided for the purpose, and forwarded to the Clerk of the County Council, County Offices, Haverfordwest, so as to reach him not later than 12 o'clock noon on Monday, 29th August, 1949.

W. E. BUFTON,
Clerk of the County Council.
County Offices, Haverfordwest, Pembs.
23rd July, 1949. 1677

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

ARCHITECTURAL ASSISTANT of Intermediate standard, required immediately by Firm of Architects in West End of London; salary according to experience and qualifications. Box 1068.

SENIOR ARCHITECTURAL ASSISTANT required in the Architect's Dept., F. W. Woolworth & Co., Ltd., Head Office, 1-5, New Bond Street, London, W.1. Applicants should write in giving full details of training, qualifications, experience and salary required, to H. Winbourne, F.R.I.B.A., Architect. 1548

VACANCIES occur for ARCHITECTS' ASSISTANTS (Intermediate standard or above) in a busy Architect's Department of a Multiple Firm (Midland office); salary according to qualifications and experience. Full particulars to Box 1639.

SENIOR ARCHITECTURAL ASSISTANT required; knowledge of general practice, industrial work, war damage, etc.; salary according to capabilities. Applications to Mackintosh, Beecroft & Partners, 11, Orchard Street, Bristol, 1. 1643

SENIOR ARCHITECTURAL ASSISTANT, R.I.B.A. Final Standard, required for busy General Practice; knowledge industrial work an advantage; possibility of partnership to suitable applicant. H. Wilson-Wood, F.R.I.B.A., 57, The Parade, Leamington Spa. 1660

£450 p.a. and the use of an unfurnished flat is offered by architect in East Anglia to a competent Architectural Assistant, office trained, experienced in domestic work, alterations, surveys, etc.; car driver. Reply with full details to Box 1661.

ARCHITECTURAL ASSISTANTS required for general architectural practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester 13. 1674

ARCHITECTURAL ASSISTANTS required, with office experience and at least R.I.B.A. Intermediate standard. Welch & Lander, F./F.R.I.B.A., 38, Gloucester Place, W.1. Welbeck 6551. 1651

SENIOR ARCHITECT required to take control of the Architectural Section in the Chief Engineer's Department of the Board; candidates, preferably not under 35 years of age, must be qualified members of the R.I.B.A., experienced in the design and construction of industrial buildings, including canteens and welfare centres; applicants should state age and experience; the appointment is of a permanent nature, and pension terms will be discussed with short list candidates; minimum starting salary £750 p.a., depending on qualifications. Applications should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8. 1703

ARCHITECT to Maidstone Brewery has vacancies for JUNIOR ASSISTANTS, Intermediate standard; generous staff pension scheme; successful candidate will be required to pass a medical examination; salary according to age and experience. Apply in first instance to Box 1685.

EXPERIENCED ARCHITECTURAL ASSISTANT required for a permanent position, with a share of profits. John P. Osborne & Son, 95, Colmore Row, Birmingham, 3. 1688

JUNIOR ASSISTANT required, Reading area, for work in connection with prefabricated buildings, housing and agriculture; salary according to age and qualifications. Box 1719.

SENIOR ASSISTANT, £10-£12, according to experience; JUNIOR ASSISTANT, £6-£8; varied work—busy office. F. J. Lenton & Partners, Chartered Architects, Stamford. 1631

ARCHITECTURAL ASSISTANTS required for progressive and expanding private Architect's office in London; must be experienced in the preparation of working drawings, etc.; work will consist of schools, industrial welfare projects, canteens, etc.; please state qualifications, experience, and salary required. Box 1681.

ARCHITECT'S ASSISTANT required; must be good draughtsman and have knowledge of building construction and capable of making war damage surveys. Reply, stating age and salary, to Messrs. H. Payne Wyatt, Son & Partner, 463/465, Brixton Road, London, S.W.9. 1698

REQUIRED, in Architect's office, with a varied practice, good ARCHITECTURAL DRAUGHTSMAN, with designing ability and some knowledge of specification writing; salary up to £400, according to experience. Reply, giving full details, to Lambert & Oliver, Chartered Architects, Bridport. 1712

ARCHITECTURAL ASSISTANT required by Exeter Firm of Architects; must be capable of preparing working drawings from sketches, detailing, surveying and levelling. Reply, giving full details, age, qualifications and salary required, to Box 1729.

ARCHITECTS. SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Architect." 2025

QUANTITY SURVEYORS. SENIOR ASSISTANTS required. Preferably with pre-war experience in Scheduling; probable costing; measuring and agreeing Final Measurements. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Surveyor." 2026

GLASGOW CORPORATION TRANSPORT DEPARTMENT.
VACANCY FOR AN ARCHITECT.

Applications are invited for a vacancy for an Architect. The salary is in accordance with the National Scale, A.P.T., Grade VI, £595-£660 per annum. Applicants should be A.R.I.B.A., or equivalent, with experience of Garage and Industrial Buildings, and capable of supervising contracts.

Applications, giving full details of age, qualifications and experience, should be forwarded, together with copies of three recent testimonials, to reach the undersigned by (14 days from date of issue).

E. R. L. FITZPAYNE, B.Sc., M.I.E.E., M.I.Mech.E.,
General Manager.
46, Bath Street, Glasgow, C.2. 1775

VACANCY FOR DRAUGHTSMAN—ARCHITECTURAL

Applications are invited for a vacancy for an Architectural Draughtsman, experienced in layout and detail of Industrial Buildings. The salary will be in accordance with the National Scale, A.P.T., Grade I, £390-£430 per annum.

Applications, giving full details of age, qualifications and experience, should be forwarded, together with copies of three recent testimonials, to reach the undersigned by (within 14 days of date of issue).

E. R. L. FITZPAYNE, B.Sc., M.I.E.E., M.I.Mech.E.,
General Manager.
46, Bath Street, Glasgow, C.2. 1776

ARCHITECTURAL ASSISTANT required; preferably A.R.I.B.A.; competent draughtsman, working drawings, details and surveys. Hiscock & Duncan Scott, Bridge Street, Guildford. 1757

ASSISTANT required immediately to take charge of Drawing Office for work of contemporary character; applicants should have passed Inter. and should state age, training, experience, and salary required; nearby 6-roomed semi-detached accommodation available. Suffolk Group Chartered Architects, 1, Quay Street, Woodbridge, Suffolk. 1751

ARCHITECT'S ASSISTANT required immediately; neat draughtsman, able to write Specifications and settle Builders' accounts. Apply to Hall-Jones & Partners, 51, The Mall, Ealing (Ealing 6568). 1784

ARCHITECTURAL ASSISTANT (Senior) required by Midland Company; must be quick and accurate draughtsman, with experience on Industrial Buildings. Full particulars, salary required, to Box 1766.

ARCHITECTURAL ASSISTANTS required immediately in offices at Newton Abbot, Tavistock and Plymouth; applications should have attained at least R.I.B.A. Intermediate standard, and should write, stating age, experience and salary required, to L. F. Vanstone & Partners, Chartered Architects, Surveyors, National Provincial Bank Chambers, Tavistock. 1761

ARCHITECTURAL ASSISTANT (Junior) required by Midland Company; excellent opportunity of gaining industrial experience. Full particulars, salary required, to Box 1767.

QUANTITY SURVEYOR, with knowledge of pricing, urgently required for country district; state age and qualifications and experience. Lions Green Works, Ltd., Horam, East Sussex. 'Phone: Horeham Road 14. 1814

REQUIRED for special assignment in London, S.W., experienced ASSISTANT ARCHITECT, to develop working drawings for large interesting project in connection with 1951 Festival; experience in design and construction of modern industrial buildings very desirable; professional qualifications not absolutely essential. Reply, stating experience and salary required, to Box 1748.

SENIOR ASSISTANT required; able to take full charge of varied architectural work. Reply, stating qualifications, age, and salary required, to Wm. Illingworth & Son, Chartered Architects, 15, Sunbridge Road, Bradford, Yorks. 1786

ARCHITECTURAL STAFF REQUIRED.—Sir John Burnet, Tait & Partners have vacancies for ARCHITECTURAL ASSISTANTS, Grade III; £480 per annum, rising £40 to £640. Write, giving particulars of experience, to 10, Bedford Square, London, W.C.1. 1789

REQUIRED immediately, in West End Architects' Office, THREE JUNIOR ASSISTANTS, of Intermediate standard; salary according to ability. Box 1793.

ASSISTANT ARCHITECTS required; salary according to experience, £600-£900 per annum. Apply W. & J. B. Ellis, F./A.R.I.B.A., Barclays Bank Buildings, St. Helens, Lancs. 1794

ARCHITECTURAL ASSISTANT required, of Intermediate R.I.B.A. standard, and with some previous experience in an architect's office; salary according to ability. Write, stating age and experience, to Staff Officer, Handley Page, Ltd., Cricklewood, N.W.2. 1798

ARCHITECTURAL ASSISTANTS required, R.I.B.A. Final and Intermediate standard, in busy West End office for work on large office buildings and general practice. Box 1797.

ARCHITECTURAL ASSISTANT required by Architect to commercial undertaking, with headquarters in Edinburgh; experienced in good class work, design, working and detail drawings, etc. Write, stating age and experience, to Box 874, Keith & Co., Advertising Agents, Edinburgh. 1799

Architectural Appointments Wanted

A. R.I.B.A., 15 years' office experience, school trained, wants work in Central London area; salary £11 per week. Box 338.

ASSISTANT, just qualified, 5 years' full-time day course, distinction in Thesis, requires progressive post in London private practice; contemporary outlook desirable; salary by arrangement. Box 339.

A. R.I.B.A (39) desires senior position; London, provinces or overseas; please state probable salary. Box 342.

PERMANENT employment in London or South Essex required by ex-Service Man (29); recently qualified at "recognized" school; pre-war experience as Junior Assistant. Box 340.

ARCHITECTURAL ASSISTANT (Female), recently qualified Liverpool University, requires post in progressive private office; London district. Box 343.

A. R.I.B.A. (40) desires change and similar permanent and responsible position; over 20 years' wide and varied experience at home and abroad; use to taking complete charge; willing to travel; accommodation advantage, but not essential; present salary £850. Box 341.

ARCHITECTURAL DRAUGHTSWOMAN, Intermediate R.I.B.A. standard, requires work in office; preferably London. Box 344.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

EXPERIENCED MEASURING SURVEYOR required by Messrs. Holloway Brothers (London), Ltd., for a large Building and Civil Engineering Contract, in South of England; must be capable of measuring for interim payments, measuring and agreeing work on schedule rates, and preparing final account; opportunity for suitable applicant to join permanent staff. Apply in writing, giving full particulars of age, experience, and salary required, to the Secretary, 157, Millbank, S.W.1. 1411

REQUIRED.—REPRESENTATIVE, with suitable connections, for obtaining orders for Fabrication and Erection of Steel Buildings. Box 1725.

DESIGNER DRAUGHTSMAN AND RENDERER required; preferably with experience of shop and store design; good prospects for man having design ability; staff superannuation scheme; 5-day week; submit samples of recent work and give full particulars as to education, experience, and monthly salary desired. Apply Courtney Pope, Ltd., Amhurst Park Works, Seven Sisters Road, Tottenham, N.15. 1787

ARCHITECTURAL journal requires EDITORIAL ASSISTANT; knowledge of architecture essential; some journalistic experience and knowledge of magazine production useful. Box 345.

DRAUGHTSMAN-ESTIMATOR. — Manufacturers of Architectural electric light fittings require experienced Estimator; able to work from drawings. Apply, stating age, experience, and salary required. Box 1813.

Services Offered

4 lines or under, 2s. 6d.; each additional line, 1s

DESIGNS, Plans, Perspectives, for all trades and professions. C. Leslie New, A.N.Inst.E. 182, Sladepool Farm Road, Birmingham, 14. Tel.: MID. 5421. 603

DRAUGHTSMANSHIP, Designing and Artistry for Architectural Metalwork, Shopfronts, Interiors, Neon Signs, Display, etc. "New" Services, 85, Heath Street, Birmingham, 18. 'Phone MID. 5421. 624

COMPETITION DESIGNS developed and rendered by Professional Draughtsman-Designer. C. Leslie New, A.N.Inst.E., 182, Sladepool Farm Road, Birmingham, 14. Tel.: MID. 5421. 1317

PROFESSIONAL MODEL-MAKER undertakes Modelling Work in spare time; Architectural, Topographical, etc. Box 1783.

CHARTERED ARCHITECT, with wide experience in profession, offers Assistance to Architects in the preparation of working drawings, specifications, schedules, reports, etc. Box 1782.

For Sale

4 lines or under, 5s.; each additional line, 1s. 6d.

THOROUGHLY seasoned Home Grown Hardwood for Sale; 1 in., 1½ in. and 1¾ in. Oak, 2 in. and 1¼ in. Elm; mixed Hardwood in sizes 4 ft. 3 in. by 2 in. by 1 in., 3 ft. 3 in. by 1½ in. by 1¼ in., 3 ft. 11 in. by 1¼ in. by 1 in. Timberies, Ltd., Oozells Street, Birmingham, 1. 705

BAKER STREET STATION (close to).—Freehold House for professional use; 4,000 sq. ft., 15 rooms; £28,000. Write Box A.C. 43172, Samson Clarks, 57/61, Mortimer Street, W.1. 1679

RED Sable Water Colour Brushes, Nos. 0-6; sample set (7 brushes), 22s. 6d., post free; c.o.d. extra. Spur Artists Brush Co., 12, Duke Street, St. James's, London, S.W.1. Whitehall 6640/6988. 662

COMPLETE Set of Dictaphone Dictating Machines; can be seen working; price £130. Apply D. Plaskett Marshall, F.R.I.B.A., 58, Gordon Square, W.C.1. MUSeum 7176/7. 1747

Miscellaneous

4 lines or under, 5s.; each additional line, 1s. 6d.

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 99-107, St. Pauls Road, N.1. Canonbury 2061.

FLOORS OF DISTINCTION Laid; in wood, rubber, composition, cork, mosaic; existing floors repaired, resurfaced and polished; also panelling restored. Davis Floorings, Grove Hall Court, Hall Road, N.W.8 CUN. 3208/6 and 3516. 600

ALL Kinds of Fencing supplied and erected; established over 100 years. Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham, 1.

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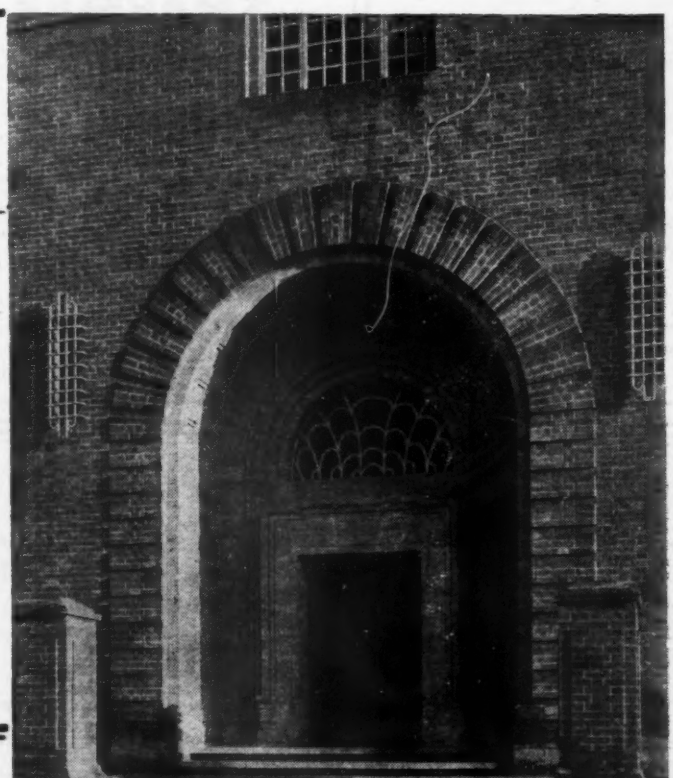
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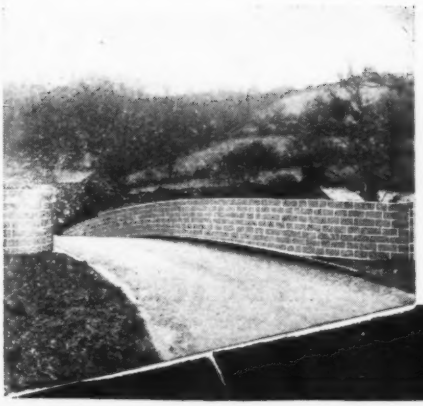
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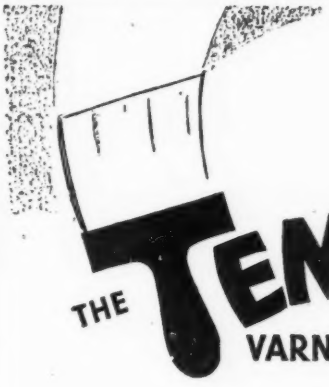
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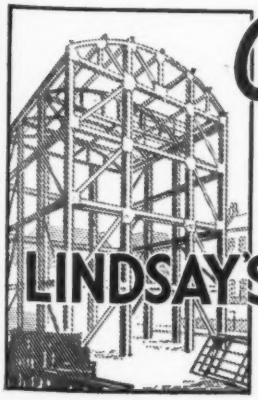
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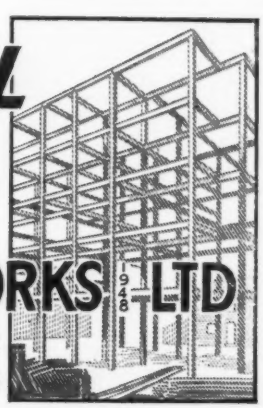


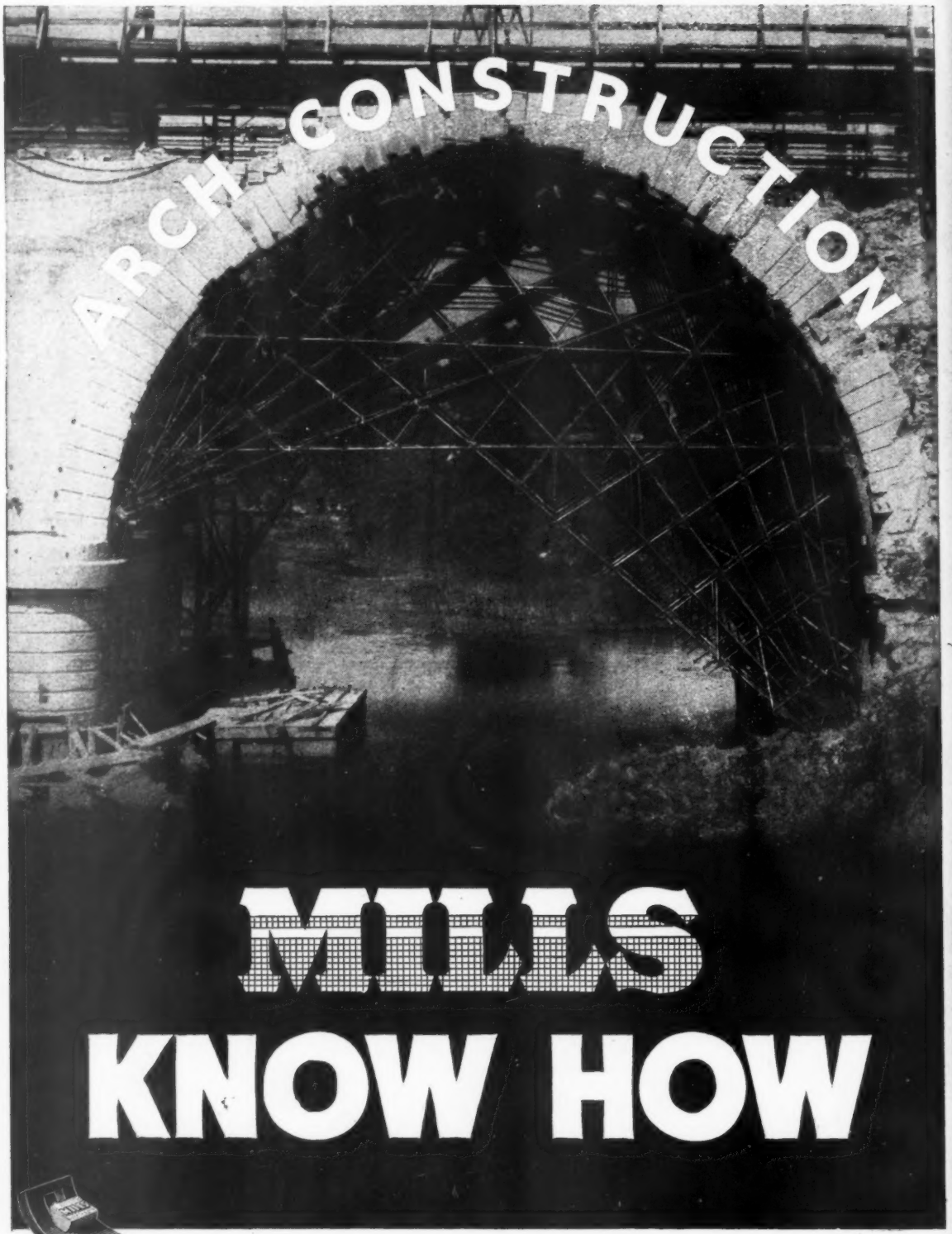
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